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Solar-Geophysical Data Number 496
December 1985. Part 1 (Prompt Reports)
Data for November 1985, October 1985 and
Late Data

(U.S.) National Geophysical Data Center
Boulder, CO

Prepared for

National Aeronautics and Space Administration
Washington, DC

May 85

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National Technical Information Service
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DECEMBER 1985 NUMBER 496 -- Part I

Solar-Geophysical Data prompt reports



Data for November 1985, October 1985, and Late Data

Explanation of Data Reports Issued as Number 489 (Supplement) May 1985



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Solar - Geophysical Data

Part I (Prompt Reports)

NO. 496 DECEMBER 1985

DATA FOR
NOVEMBER 1985

OCTOBER 1985

Michael A. Chinnery, Director
NATIONAL GEOPHYSICAL DATA CENTER
BOULDER, COLORADO

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5	Jan 60 - Dec 60	Microfilm	13	Jan 67 - Dec 67	Microfilm	21	Jul 71 - Dec 71	Microfilm
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SOLAR - GEOPHYSICAL DATA

NUMBER 496

(Issued in Two Parts)

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ALERT PERIODS
INTERNATIONAL URSIGRAM AND WORLD DAYS SERVICE

SUMMARY OF THE GEOALERT MESSAGES

NOVEMBER 1985

NO	DI	DO	WOLF	10CM	A	LOC	TOT	M	X	OUTSTANDING EVENTS	DA	LOC	DE	ALERTS
305	01	31	000	071	005	SPOTNIL					01	SPOTNIL		SOLQUIET MAGQUIET
306	02	01	000	070	015	SPOTNIL					02	SPOTNIL		SOLQUIET MAGQUIET
307	03	02	000	070	015	SPOTNIL					03	SPOTNIL		SOLQUIET MAGQUIET
308	04	03	000	069	024	SPOTNIL					04	SPOTNIL		SOLQUIET MAGQUIET
309	05	04	000	069	011	SPOTNIL					05	SPOTNIL		SOLQUIET MAGQUIET
310	06	05	018	070	008	N14W28	0	0	0		06	N14W28	Q	SOLQUIET MAGQUIET
311	07	06	021	071	013	N14W41	0	0	0		07	N14W41	Q	SOLQUIET MAGQUIET
312	08	07	022	073	008	N14W55	1	0	0		08	N14W55	Q	SOLQUIET MAGQUIET
313	09	08	032	075	005	N14W70 S09E80	4 0	0 0	0 0		09	N14W70 S09E80	Q Q	SOLQUIET MAGQUIET
314	10	09	027	074	010	N14W84 S10E67	0 0	0 0	0 0		10	N14W84 S10E67	Q Q	SOLQUIET MAGQUIET
315	11	10	027	074	013	N13W92 S10E54	0 0	0 0	0 0		11	N13W92 S10E54	Q Q	SOLQUIET MAGQUIET
316	12	11	017	076	014	S10E40	3	0	0		12	S10E40	Q	SOLQUIET MAGQUIET
317	13	12	031	076	006	S10E26 N03E76	0 0	0 0	0 0		13	S10E26 N03E76	Q Q	SOLQUIET MAGQUIET
318	14	13	044	076	020	S10E13 S08E52 N04E60	0 1 0	0 0 0	0 0 0		14	S10E13 S08E52 N04E60	Q Q Q	SOLQUIET MAGQUIET
319	15	14	050	079	014	S09E03 S09E41 N03E46	0 0 0	0 0 0	0 0 0		15	S09E03 S09E41 N03E46	Q Q Q	SOLQUIET MAGQUIET
320	16	15	050	086	012	S09W12 S08E27 N03E32	0 1 0	0 0 0	0 0 0		16	S09W12 S08E27 N03E32	Q Q Q	SOLQUIET MAGQUIET
321	17	16	036	081	010	S10W27 S08E13	0 0	0 0	0 0		17	S10W27 S08E13	Q Q	SOLQUIET MAGQUIET
322	18	17	033	079	008	S08W01 N02E29	0 0	0 0	0 0		18	S08W01 N02E29	Q Q	SOLQUIET MAGQUIET
323	19	18	046	079	012	N08W15 S09W14 N01E17	0 0 0	0 0 0	0 0 0		19	N08W15 S09W14 N01E17	Q Q Q	SOLQUIET MAGQUIET
324	20	19	030	078	018	S09W28 N01W01	0 0	0 0	0 0		20	S09W28 N01W01	Q Q	SOLQUIET MAGQUIET
325	21	20	029	078	004	S09W42 N02W16	0 1	0 0	0 0		21	S09W42 N02W16	Q Q	SOLQUIET MAGQUIET

ALERT PERIODS
INTERNATIONAL URSIGRAM AND WORLD DAYS SERVICE

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SUMMARY OF THE GEOMAGNETIC ALERT MESSAGES

NOVEMBER 1985

NO	DI	DO	WOLF	10CM	A	LOC	TOT	M	X	OUTSTANDING EVENTS	DA	LOC	DE	ALERTS
326	22	21	025	076	005	S09W59 N03W29	0	0	0		22	S09W59 N03W29	Q	SOLQUIET MAGQUIET
327	23	22	011	075	008	S09W73	0	0	0		23	S09W73	Q	SOLQUIET MAGQUIET
328	24	23	011	075	005	S09W87	0	0	0		24	S09W87	Q	SOLQUIET MAGQUIET
329	25	24	000	074	005	SPOTNIL					25	SPOTNIL		SOLQUIET MAGQUIET
330	26	25	000	072	006	SPOTNIL					26	SPOTNIL		SOLQUIET MAGQUIET
331	27	26	000	071	008	SPOTNIL					27	SPOTNIL		SOLQUIET MAGQUIET
332	28	27	000	072	015	SPOTNIL				PRESTO 28/0000 UT MAGSTORM BEGINS 27/0300 UT	28	SPOTNIL		SOLQUIET MAGQUIET
333	29	28	000	071	013	SPOTNIL					29	SPOTNIL		SOLQUIET MAGALERT MINOR 29/30
334	30	29	000	071	017	SPOTNIL				PRESTO 30/0000 UT MAGSTORM BEGINS 29/0807 UT	30	SPOTNIL		SOLQUIET MAGALERT MINOR 30/01
335	01	30	000	071	040	SPOTNIL					01	SPOTNIL		SOLQUIET MAGNIL

NO=MESSAGE SERIAL NUMBER, DI=DATE OF ISSUE, DO=DATE OF OBSERVATION, WOLF=WOLF NUMBER, 10CM=10 CM SOLAR FLUX, A=A INDEX, LOC=LOCATION LATITUDE AND LONGITUDE, TOT=TOTAL NUMBER OF FLARES, M=NUMBER OF M FLARES, X=NUMBER OF X FLARES, DA=DATE OF FORECAST, DE=DESCRIPTION, Q=QUIET, E=ERUPTIVE, A=ACTIVE, P=PROTON.

PRESTO MESSAGES (THE RAPID REPORT OF MAJOR EVENTS)

NOVEMBER 1985

PRESTO KAKIOKA 28/0000 UT MAGSTORM BEGINS 27/0300 UT

PRESTO KAKIOKA 30/0000 UT MAGSTORM BEGINS 29/0807 UT

INTERNATIONAL (R_i) RELATIVE SUNSPOT NUMBERS

Day	1984 Dec	1985 Final Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Prov Oct	Nov
01	19	0	18	13	25	19	10	21	35	7	0	0
02	22	0	22	13	21	15	0	27	25	0	0	0
03	19	0	25	9	23	14	11	30	27	0	0	0
04	19	0	22	0	17	18	26	32	27	0	0	0
05	16	0	20	0	23	16	35	38	20	0	0	17
06	21	0	16	0	19	14	37	43	14	0	0	19
07	18	0	7	0	11	32	38	71	12	0	0	20
08	23	11	16	14	9	44	42	67	12	0	0	18
09	21	14	24	15	9	56	42	82	17	0	0	25
10	15	0	19	13	0	49	58	82	12	0	0	15
11	28	0	13	16	0	49	66	61	12	7	0	17
12	29	13	10	18	0	33	54	45	12	0	0	19
13	28	16	11	14	0	32	45	25	0	9	11	30
14	28	26	13	10	10	32	36	9	0	9	13	44
15	26	25	11	0	0	32	37	8	0	9	15	48
16	30	26	10	11	0	31	27	9	14	9	25	39
17	24	29	12	20	0	38	0	11	12	8	19	43
18	12	26	10	35	10	41	18	11	11	10	20	38
19	11	27	19	27	9	40	10	11	12	10	31	30
20	11	55	27	19	11	37	9	11	10	9	46	28
21	14	59	27	9	17	36	9	10	9	8	50	25
22	12	50	25	15	31	34	9	10	0	7	72	12
23	11	39	16	22	28	32	12	18	0	0	67	10
24	16	33	11	36	30	25	13	12	0	0	63	0
25	21	20	11	30	37	19	12	10	0	0	55	0
26	20	9	11	33	37	13	10	13	8	0	38	0
27	14	8	10	27	31	12	8	12	8	0	25	0
28	16	0	9	36	27	12	8	26	10	0	14	0
29	15	9	25	26	10	9	51	9	7	7	11	0
30	10	0	29	26	8	11	46	8	7	0	0	0
31	10	17	23	8	40	9	0	0	0	0	0	0
Mean	19	16	16	17	16	28	24	31	11	4	18	17

The yearly mean sunspot number equaled 45.9 in 1984.

DAILY SOLAR FLUX AT 2800 MHz (10.7 cm) ADJUSTED TO 1 AU

ALGONQUIN RADIO OBSERVATORY, OTTAWA

Day	Dec 84	Jan 85	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
01	77.0	68.4	72.2	69.3	72.2	80.6*	69.5	76.9	80.5	73.0	68.3	69.0
02	76.8	67.8	73.8	69.1	72.6	76.5	72.4	79.1*	80.4	72.8	67.5	68.8
03	77.9	67.7	73.6	69.0	72.5A	72.6	74.6	81.3	79.2	73.1	68.7	68.0
04	75.9	67.8	70.9	68.6	71.9	70.8	77.5	80.4	79.3	73.5	68.3	67.6
05	73.4	67.0	71.2	67.5	71.2	71.4	84.3	83.3	78.5	72.2	67.0	68.5
06	73.0	67.9	70.6	68.1	70.5	75.0	87.4	87.5	77.9	72.5	66.0	70.0
07	72.8	68.1	70.3	68.0	70.3	79.1	88.4	97.7	79.5	70.8	65.9	71.8
08	74.1	67.4	72.5	68.7	69.9	83.7	88.9	96.7*	78.5	70.1	65.8	73.7
09	74.5	68.1	73.2	68.7	69.4	89.6	89.8	100.9*	74.9	70.6	66.0	72.9
10	75.7	67.4	73.6	68.0	69.7	91.7	91.7	104.6*	72.8	70.3	66.7	72.5
11	78.9	67.7	73.2	69.6	69.0	89.9	91.2	97.3	68.4	69.2	67.7	74.7
12	77.8	68.4	72.3	69.3	69.6	92.1	89.8	92.9	69.7	66.5	66.9	74.7
13	76.2	72.6	70.8	69.5	69.8	91.9	89.2	85.5	68.9	70.7	66.7	74.3
14	75.8A	72.3	70.5	69.5	70.6	90.7*	85.3	76.4	69.3	70.4	69.8	76.9
15	74.9	72.4	70.2	69.6	70.0	92.0*	83.8	73.0	69.0	71.1	71.7	82.2*
16	74.2	74.7	69.8	70.1	67.4	95.5	80.9	71.9	68.2	70.3	73.2	78.8
17	72.6	75.8	70.9	72.1	70.2	92.3	77.3	71.9	67.9	70.0	75.5	77.4
18	70.2	74.1	73.4*	74.6	71.7	92.7	73.8	71.8	68.5	70.4	75.5	77.3
19	71.0	75.4	76.1	74.2	71.7	89.6	72.2	71.7	69.1	70.7	77.7	75.6
20	69.9	81.7*	75.0	74.2	72.5	86.7	71.9	71.7	70.6	69.8	79.4	75.7
21	69.7	84.9*	74.2	76.1*	77.9	84.4*	71.5	71.2	70.4	69.6	84.7	73.7
22	70.7	85.3	73.3	75.9	79.8	82.7*	71.6	71.0	72.7	69.8	94.3	73.1
23	71.3	82.5	71.7	77.3	93.3*	80.0	71.8	71.1	72.9	69.2	93.2*	72.8
24	71.8	78.2	70.5	79.6	89.0*	78.3	70.8	71.0	72.1	69.0	92.5	71.9
25	72.2	73.9	70.1	78.5	95.2	77.2	71.0	75.6	72.5	68.7	88.5*	70.3
26	72.3	71.0	69.7	79.7†	88.3*	75.5	70.0	77.4	72.3	68.4	83.0	69.5
27	72.0	69.5	68.9	77.4†	80.6	74.6	70.2	79.2	73.1	67.7	78.5*	69.8
28	72.2	69.6	69.7	77.7†	78.1	72.7	71.0	81.2	73.1	67.8	76.7	69.0
29	72.1	68.7	76.7†	83.2	72.5	72.3	83.5	73.1	68.3	73.5	69.1	69.1
30	71.4	68.3	75.8†	80.8	71.4	74.8	83.8	73.9	68.3	70.5	68.8	68.8
31	70.0	69.9A	76.4*	69.6	82.4	74.1	69.5	0	0	0	0	0
Mean	73.5	72.1	71.9	72.5	75.7	82.0	78.5	81.3	73.3	70.2	74.2	72.6

A = interpolated value; --- = no observation.

*Adjusted for burst in progress at time of measurement; †corrected for antenna drift.
The yearly mean 2800 MHz flux adjusted to 1 astronomical unit equaled 101.1 in 1984.

ERRATA: in SGD issues number 485-486, solar fluxes for 31st day of 1984 must be shifted right 1 column.

DAILY SOLAR INDICES

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NOVEMBER 1985

Julian		Bartels	Sunspot		Obs Flux	----- Solar Flux Adjusted to 1 Astronomical Unit -----								
Day	Day	Day	Int	Amer	Ottawa (2800)	SGMR (15400)	SGMR (8800)	SGMR (4995)	Ottawa (2800)	SGMR (2695)	SGMR (1415)	SGMR (610)	SGMR (410)	SGMR (245)
01	305	17	0	0	70.1	---	---	---	69.0	--	--	--	--	--
02	306	18	0	0	69.9	538	261	93	68.8	66	54	48	19	9
03	307	19	0	0	69.1	524	284	93	68.0	66	53	48	17	9
04	308	20	0	0	68.8	540	290	97	67.6	65	53	47	19	10
05	309	21	17	16	69.7	---	219	88	68.5	61	54	48	15	10
06	310	22	19	20	71.3	506	288	104	70.0	66	55	48	19	10
07	311	23	20	20	73.1	553	284	105	71.8	59	56	46	15	9
08	312	24	18	17	75.1	558	293	108	73.7	70	58	52	19	11
09	313	25	25	24	74.3	546	295	107	72.9	71	56	53	19	10
10	314	26	15	17	74.0	536	289	107	72.5	71	57	50	19	11
11	315	27	17	17	76.2	503	288	101	74.7	69	57	50	22	11
12	316	1	19	17	76.3	---	272	81	74.7	72	56	47	19	10
13	317	2	30	31	75.9	---	---	---	74.3	--	--	--	--	--
14	318	3	44	45	78.5	547	296	112	76.9	74	62	51	21	11
15	319	4	48	47	84.0*	559	306	117	82.2*	82	66	53	21	9
16	320	5	39	40	80.6	553	310	116	78.8	75	62	57	18	9
17	321	6	43	42	79.2	---	---	---	77.4	--	--	--	--	--
18	322	7	38	32	79.1	550	291	108	77.3	75	65	58	15	9
19	323	8	30	30	77.5	536	282	112	75.6	74	62	55	18	10
20	324	9	28	28	77.6	542	288	107	75.7	73	62	56	20	11
21	325	10	25	21	75.5	557	301	107	73.7	70	61	52	20	10
22	326	11	12	12	75.0	522	287	101	73.1	69	59	54	21	10
23	327	12	10	10	74.7	546	294	109	72.8	68	57	53	15	10
24	328	13	0	0	73.8	547	298	106	71.9	64	56	53	15	9
25	329	14	0	0	72.2	542	301	104	70.3	62	56	49	14	9
26	330	15	0	0	71.4	529	293	93	69.5	66	54	50	17	10
27	331	16	0	0	71.7	526	283	85	69.8	68	55	50	17	9
28	332	17	0	0	70.9	---	---	---	69.0	--	--	--	--	--
29	333	18	0	0	71.0	540	300	85	69.1	64	51	45	15	9
30	334	19	0	0	70.8	519	295	84	68.8	61	51	44	14	8
Mean			17	16	74.2	538	288	101	72.6	69	57	51	17	10

*Adjusted for burst in progress at time of measurement.

The observed and the adjusted Ottawa fluxes tabulated above are the "Series C" daily values reported by the Algonquin Radio Observatory, Ottawa, Ontario, Canada. The letter "A" following an entry designates an interpolated flux. Numbers in parentheses in the column headings denote frequencies in MHz.

Equipment problems produced the gaps shown here in the Air Weather Service's Sagamore Hill (SGMR) observations.

The International and American sunspot numbers shown above are preliminary values.

OBSERVED AND PREDICTED SOLAR ACTIVITY INDICES

NOVEMBER 1985

Date	RELATIVE SUNSPOT NUMBERS						2800 MHz RADIO FLUX Adjusted to 1 AU (Sa)	
	International (Ri)		American (Ra)		Derived (Rs)		Monthly Mean	Smoothed
	Monthly Mean	Smoothed	Monthly Mean	Smoothed	Monthly Mean	Smoothed		
Jan 82	111.1	137	110.4	139	124.2	148	173.4	195
Feb	163.6	133	161.0	134	163.6	144	208.9	191
Mar	153.8	129	155.5	130	163.0	139	208.3	186
Apr	122.0	124	121.9	124	113.9	134	162.9	182
May	82.2	120	82.6	120	97.7	129	147.9	177
Jun	110.4	117	113.5	118	129.6	127	177.4	175
Jul	106.1	115	113.3	117	116.0	125	164.8	174
Aug	107.6	109	110.5	111	123.9	120	172.1	168
Sep	118.8	101	117.8	103	118.5	112	167.1	161
Oct	94.7	96	90.1	97	111.8	106	160.9	155
Nov	98.1	95	93.2	95	114.8	103	163.7	153
Dec	127.0	95	145.0	95	146.7	101	193.2	151
Jan 83	84.3	93	82.8	93	86.7	98	137.7	148
Feb	51.0	90	53.4	90	67.2	94	119.6	145
Mar	66.5	86	60.5	85	64.7	90	117.3	141
Apr	80.7	82	74.5	81	67.5	85	119.9	135
May	99.2	77	97.7	77	86.1	80	137.1	131
Jun	91.1	70	93.1	69	92.4	72	143.0	124
Jul	82.2	66	82.2	63	77.4	65	129.1	118
Aug	71.8	66	69.2	63	75.7	66	127.5	118
Sep	50.3	68	47.4	66	57.0	67	110.2	119
Oct	55.8	68	52.3	66	58.6	67	111.7	120
Nov	33.3	59	30.2	65	35.6	67	90.4	120
Dec	33.4	64	32.3	62	35.7	65	90.5	118
Jan 84	57.0	60	54.4	58	59.4	61	112.4	115
Feb	85.4	56	81.5	54	86.2	58	137.2	101
Mar	83.5	53	83.0	51	68.5	55	120.8	108
Apr	69.7	50	66.5	43	78.1	52	129.7	105
May	76.4	48	72.1	45	79.6	49	131.1	103
Jun	46.1	46	45.2	44	49.8	48	103.5	102
Jul	37.4	44	36.2	42	37.6	39	92.2	99
Aug	25.5	40	24.5	38	30.7	41	85.8	95
Sep	15.7	34	13.6	37*	23.2	35	78.9	90
Oct	12.0	29	9.8	2*	16.9	31	73.1	86
Nov	22.8	25	19.4	23*	18.6	26	74.6	72
Dec	18.7	22	17.0	20*	17.4	23	73.5	79
Jan 85	16.5	20	14.5	19*	15.9	21	72.1	77
Feb	15.9	20	16.3	18*	15.7	20	71.9	76
Mar	17.2	19	11.8*	16*	16.3	19	72.5	75
Apr	16.2	18*	17.1*	17*	19.8	19	75.7	75
May	27.5	18*	24.0*	17*	26.6	19	82.0	75
Jun	24.2	18(1)*	22.2*	16	22.8	18	78.5	--
Jul	30.7	17(2)*	30.8*	16	25.8	18	81.3	--
Aug	11.1	16(3)*	10.7*	15	17.2	17	73.3	--
Sep	3.9	15(4)*	3.4*	14	13.8	16	70.2	--
Oct	18.5†	14(6)*	16.5*	13	18.1	15	74.2	--
Nov	16.6†	13(7)*	16.4*	12	16.4	14	72.6	--
Dec	----	12(7)*	----	11	----	13	----	--
Jan 86	----	12(7)*	----	11	----	13	----	--
Feb	----	12(8)*	----	11	----	12	----	--
Mar	----	11(9)*	----	10	----	12	----	--
Apr	----	10(9)*	----	9	----	11	----	--
May	----	10(10)*	----	9	----	10	----	--

*An asterisk marks either a value of the observed 12 month running mean or of a predicted 12-month average that is based in part on preliminary observations.

Underlined entries indicate predicted values and parentheses enclose the absolute value of the 90% confidence limits. The two columns headed "Derived" represent a sunspot number computed from a linear regression equation between the 2800 MHz solar flux (adjusted to 1 astronomical unit) and the Zurich sunspot number.

SMOOTHED OBSERVED AND PREDICTED SUNSPOT NUMBERS FOR CYCLE 21

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Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1976	15	13	12	13	13	12*	13	14	14	13	14	15
1977	17	18	20	22	24	26	29	33	39	46	52	57
1978	61	65	70	77	83	89	97	104	108	111	113	118
1979	124	131	137	141	147	153	155	155	156	158	162	165*
1980	164	163	161	159	156	155	153	150	150	150	148	143
1981	140	142	143	143	143	142	140	141	143	142	139	138
1982	137	133	129	124	120	117	115	109	101	96	95	95
1983	93	90	86	82	71	71	66	66	68	68	67	64
1984	60	56	53	50	48	47	44	40	34	29	25	22
1985	21	20	19	18	18	18 (1)	17 (2)	16 (3)	15 (4)	14 (6)	13 (7)	12 (7)
1986	12 (7)	12 (8)	11 (9)	10 (9)	10 (10)	9 (10)	9 (10)	8 (10)	8 (9)	8 (9)	8 (9)	8 (3)

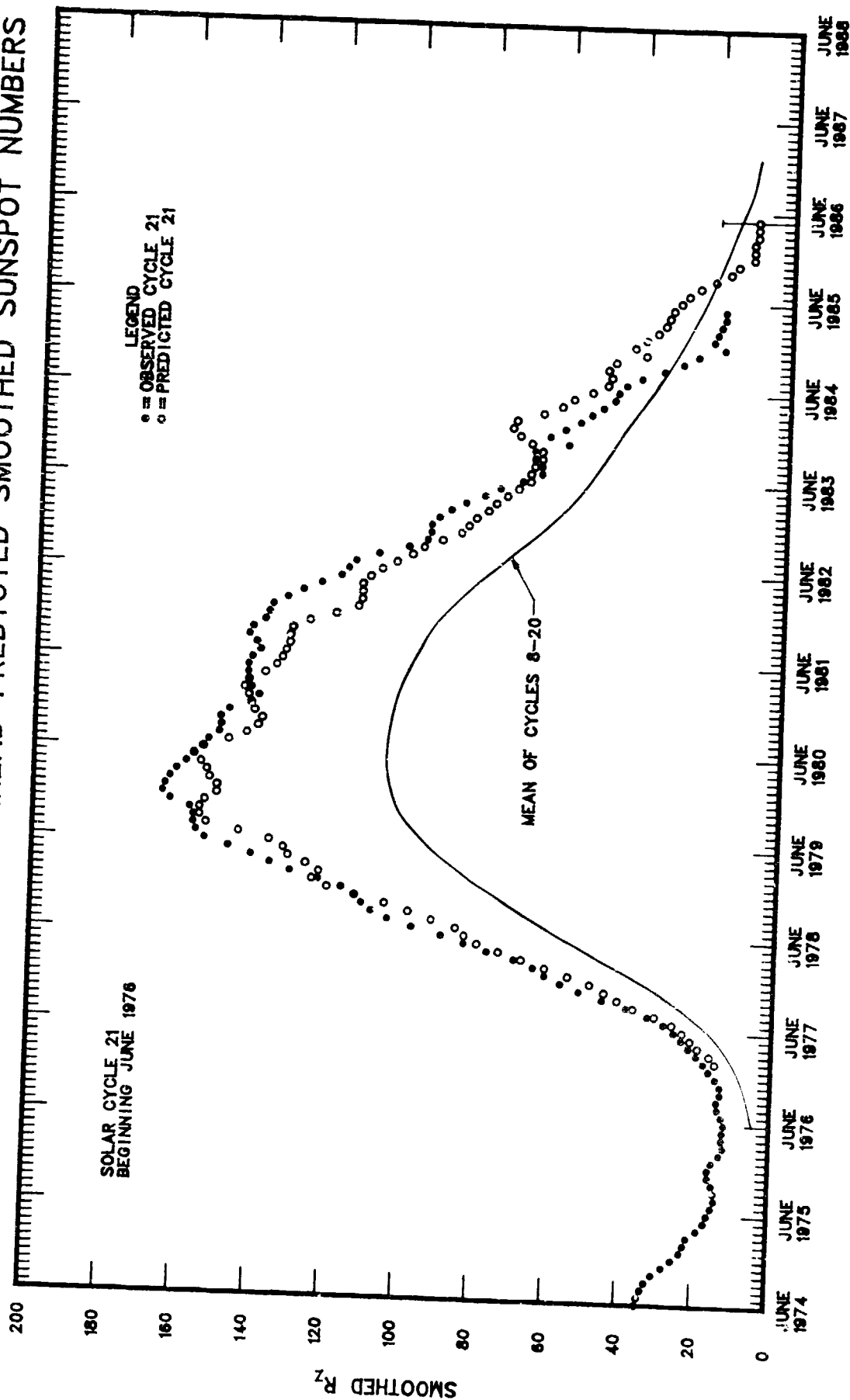
An asterisk marks the minimum and the maximum of Sunspot Cycle 21.

For the current solar cycle, this table gives observed smoothed sunspot numbers up to the one calculated from the most recently measured monthly mean. These smoothed observed values are based on final monthly mean Zurich numbers through 1980, on final International numbers through September 1985, and on provisional International numbers thereafter.

The entries with numbers in parentheses below them denote predictions by the McNish-Lincoln method. (See page 9 in the May 1985 edition of the "Solar-Geophysical Data" supplement.) Adding the number in parentheses to the predicted value generates the upper limit of the 90% confidence interval; subtracting the number in parentheses from the predicted value generates the lower limit. Consider, for example, the May 1986 prediction tabulated above. There exists a 90% chance that in May 1986 the actual smoothed sunspot number will fall somewhere between 0 and 20.

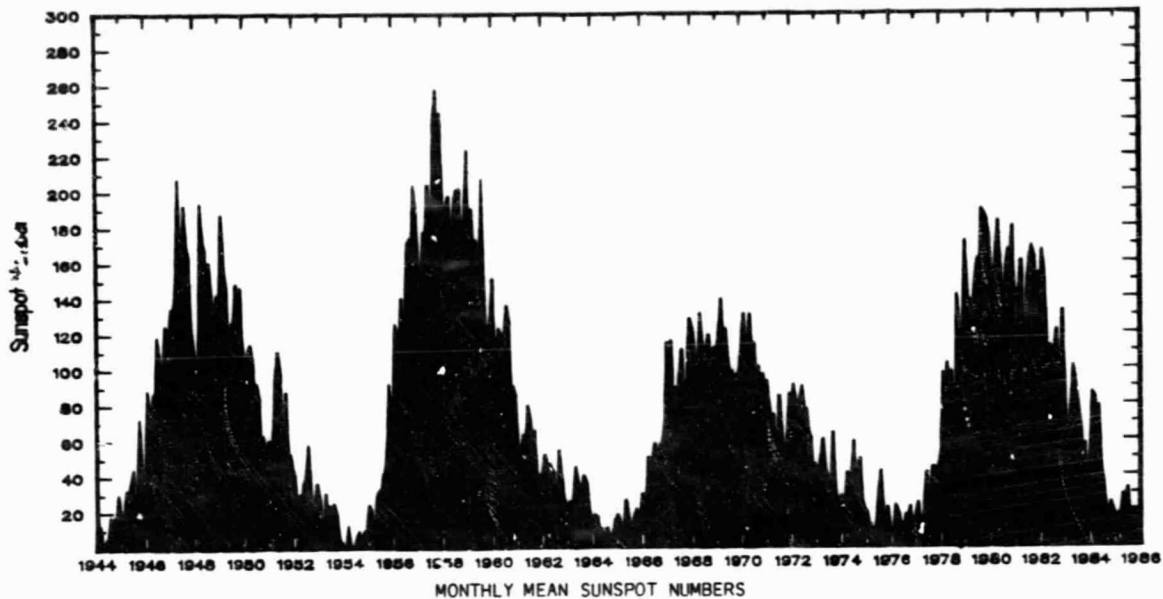
THE McNish-Lincoln PREDICTION METHOD GENERATES USEFUL ESTIMATES OF SMOOTHED SUNSPOT NUMBERS FOR NO MORE THAN 12 MONTHS AHEAD. Beyond a year the predictions regress rapidly toward the mean of all 13 cycles of data used in the computation. Furthermore, the method is very sensitive to the date defined as the beginning of the current sunspot cycle, that is, to the date of the most recent sunspot minimum. In "Solar-Geophysical Data," Issues 390-401, we based the current cycle predictions on March 1976 as the end of cycle 20 and the onset of the new cycle 21. Later studies, including one published by M. Waldmeier, showed that June 1976 was more appropriately the minimum epoch. We therefore generated this table using the June 1976 date.

OBSERVED AND ONE-YEAR-AHEAD PREDICTED SMOOTHED SUNSPOT NUMBERS



MONTHLY MEAN SUNSPOT NUMBERS January 1944 - November 1985

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MONTHLY MEAN SUNSPOT NUMBERS												
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1944	3.7	0.5	11.0	0.3	2.5	5.0	5.0	16.7	14.3	16.9	10.8	28.4
1945	18.5	12.7	21.5	32.0	30.6	36.2	42.6	25.9	34.9	68.8	46.0	27.4
1946	47.6	86.2	76.6	75.7	84.9	73.5	116.2	107.2	94.4	102.3	123.8	121.7
1947	115.7	133.4	129.8	149.8	201.3	163.9	157.9	188.8	169.4	163.6	128.0	116.5
1948	108.5	86.1	94.8	189.7	174.0	167.8	142.2	157.9	143.3	136.3	95.8	138.0
1949	119.1	182.3	157.5	147.0	106.2	121.7	125.8	123.8	145.3	131.6	143.5	117.6
1950	101.6	94.8	109.7	113.4	106.2	83.6	91.0	85.2	51.3	61.4	54.8	54.1
1951	59.9	59.9	55.9	92.9	108.5	100.6	61.5	61.0	83.1	51.6	52.4	45.8
1952	40.7	22.7	22.0	29.1	23.4	36.4	39.3	54.9	28.2	23.8	22.1	34.3
1953	26.5	3.9	10.0	27.8	12.5	21.8	8.6	23.5	19.3	8.2	1.6	2.5
1954	0.2	0.5	10.9	1.8	0.8	0.2	4.8	8.4	1.5	7.0	9.2	7.6
1955	23.1	20.8	4.9	11.3	28.9	31.7	26.7	40.7	42.7	58.5	89.2	76.9
1956	73.6	124.0	118.4	110.7	136.6	116.6	129.1	169.6	173.2	155.3	201.3	192.1
1957	165.0	130.2	157.4	175.2	164.6	200.7	187.2	158.0	235.8	253.8	210.9	239.4
1958	202.5	164.9	190.7	196.0	175.3	171.5	191.4	200.2	201.2	181.5	152.3	187.6
1959	217.4	143.1	185.7	163.3	172.0	168.7	149.6	199.6	145.2	111.4	124.0	125.0
1960	146.3	106.0	102.2	122.0	119.6	110.2	121.7	134.1	127.2	82.8	89.6	85.6
1961	57.9	46.1	53.0	61.4	51.0	77.4	70.2	55.8	63.6	37.7	32.6	39.9
1962	38.7	50.3	45.6	46.4	43.7	42.0	21.8	21.8	51.3	39.5	26.9	23.2
1963	19.8	24.4	17.1	29.3	43.0	35.9	19.6	33.2	38.8	35.3	23.4	14.9
1964	15.3	17.7	16.5	8.6	9.5	9.1	3.1	9.3	4.7	6.1	7.4	15.1
1965	17.5	14.2	11.7	6.8	24.1	15.9	11.9	8.9	16.8	20.1	15.8	17.0
1966	28.2	24.4	25.3	48.7	45.3	47.7	56.7	51.2	50.2	57.2	57.2	70.4
1967	110.9	93.6	111.8	69.5	86.5	67.3	91.5	107.2	76.8	88.2	94.3	126.4
1968	121.8	111.9	92.2	81.2	127.2	110.3	96.1	109.3	117.2	107.7	86.0	109.8
1969	104.4	120.5	135.8	106.8	120.0	106.0	96.8	98.0	91.3	95.7	93.5	97.9
1970	111.5	127.8	102.9	109.5	127.5	106.8	112.5	93.0	99.5	86.6	95.2	83.5
1971	91.3	79.0	60.7	71.8	57.5	49.8	81.0	61.4	50.2	51.7	63.2	82.2
1972	61.5	88.4	80.1	63.2	80.5	88.0	76.5	76.8	64.0	61.3	41.6	45.3
1973	43.4	42.9	46.0	57.7	42.4	39.5	23.1	25.6	59.3	30.7	23.9	23.3
1974	27.6	26.0	21.3	40.3	39.5	36.0	55.8	33.6	40.2	47.1	25.0	20.5
1975	18.9	11.5	11.5	5.1	9.0	11.4	28.2	39.7	13.9	9.1	19.4	7.8
1976	8.1	4.3	21.9	18.8	12.4	12.2	1.9	16.4	13.5	20.6	5.2	15.3
1977	16.4	23.1	8.7	12.9	18.6	38.5	21.4	30.1	44.0	43.8	29.1	43.2
1978	51.9	93.6	76.5	99.7	82.7	95.1	70.4	58.1	138.2	125.1	97.9	122.7
1979	166.6	137.5	138.0	101.5	134.4	149.5	159.4	142.2	188.4	186.2	183.3	176.3
1980	159.6	155.0	126.2	164.1	179.9	157.3	136.3	135.4	155.0	164.7	147.9	174.4
1981	114.0	141.3	135.5	156.4	127.5	90.9	143.8	158.7	167.3	162.4	137.5	150.1
1982	111.2	163.6	153.8	122.0	82.2	110.4	106.1	107.6	118.8	94.7	98.1	127.0
1983	84.3	51.0	66.5	80.7	99.2	91.1	82.2	71.8	50.3	55.8	33.3	33.4
1984	57.0	85.4	83.5	69.7	76.4	46.1	37.4	25.5	15.7	12.0	22.8	18.7
1985	16.5	15.9	17.2	16.2	27.5	24.2	30.7	11.1	3.9	18.5*	16.6*	

*Provisional

H - ALPHA SOLAR FLARES

NOVEMBER 1985

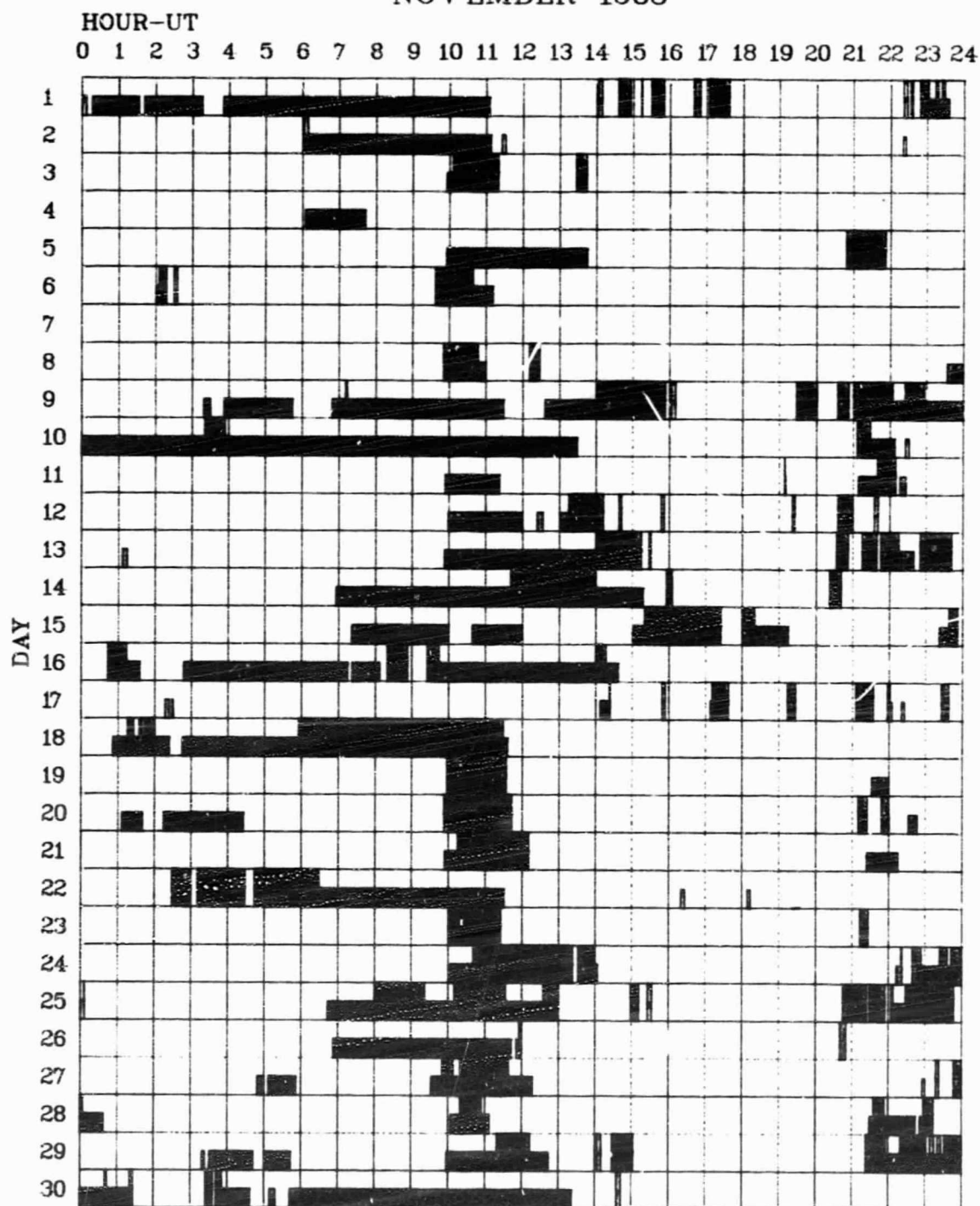
Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
							Region									Apparent (10 ⁻⁶ Disk)	Corr (Sq Deg)	
RAMY	07	1741E		1803	N14	W52	4700	11	03.8	220	SF		3	C		25		F
[	LEAR	06 0346	0352	0356	N14	W59	4700	11	03.7	10	SF		3	C		37		
	LEAR	08 0410	0415	0417	N13	W60	4700	11	03.6	7	SF		2	C		32		
	RAMY	08 1158	1158	12100	N15	W62	4700	11	03.8	120	SF		3	C		30		
	HOLL	08 2108	2108	2113	N14	W66	4700	11	03.9	5	SF		3	C		15		
	LEAR	11 0516	0521	0527	S11	E52	4701	11	15.1	11	SF		3	C		32		
	LEAR	11 0921	0929	0945	S10	E49	4701	11	15.1	24	SF		3	C		34		
[	HOLL	13 1705	1712	1722	S09	E57	4703	11	18.0	17	SF	C 1.3	3	C		30		F
	RAMY	13 1713	1716	1735	S07	E57		11	18.0	22	SN		3	C		46		
[	MITK	15 0300	0307	0359	S08	E40		11	18.1	59	IN			C	0307	160	2.2	E
	LEAR	15 0329E	0332	0337	S10	E37	4703	11	17.9	80	SF		3	C		27		
	PEKG	19 0547	0604	0632	S02	W02		11	19.1	45	SN			C	0604	126	1.3	E
[	RAMY	20 1636	1645	1724	N01	W09	4704	11	20.0	48	SN		3	C		59		F
	HOLL	20 1637	1646	1656	N02	W10	4704	11	19.9	19	SF		3	C		21		U

"Remarks":

A = Eruptive prominence whose base is less than 90° from central meridian.
 B = Probably the end of a more important flare.
 C = Invisible 10 minutes before.
 D = Brilliant point.
 E = Two or more brilliant points.
 F = Several eruptive centers.
 G = No visible spots in the neighborhood.
 H = Flare accompanied by high-speed dark filament.
 I = Active region very extended.
 J = Distinct variations of plage intensity before or after the flare.
 K = Several intensity maxima.
 L = Existing filaments show signs of sudden activity.
 M = White-light flare.
 N = Continuous spectrum shows effects of polarization.

O = Observations have been made in the H and K lines of Ca II.
 P = Flare shows helium D3 in emission.
 Q = Flare shows Balmer continuum in emission.
 R = Marked asymmetry in H-alpha line suggests ejection of high-velocity material.
 S = Brightness follows disappearance of filament in same position.
 T = Region active all day.
 U = Two bright branches, parallel or converging.
 V = Occurrence of an explosive phase: important, expansion within roughly 1 minute that often includes a significant intensity increase.
 W = Great increase in area after time of maximum intensity.
 X = Unusually wide H-alpha line.
 Y = System of loop-type prominences.
 Z = Major sunspot umbra covered by flare.

INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE NOVEMBER 1985



Times of no flare patrol, shown here as shaded areas, combine reports from the observatories listed below. Portions of a panel completely shaded mark dates and times of no patrol of any kind, that is, of neither visual nor cinematographic; portions of a panel with only the bottom half shaded mark times of strictly visual patrol.

Athens
Bucharest

Holloman
Learmonth

Manila
Mitaka

Palehua
Peking

Ramey
Wendelstein

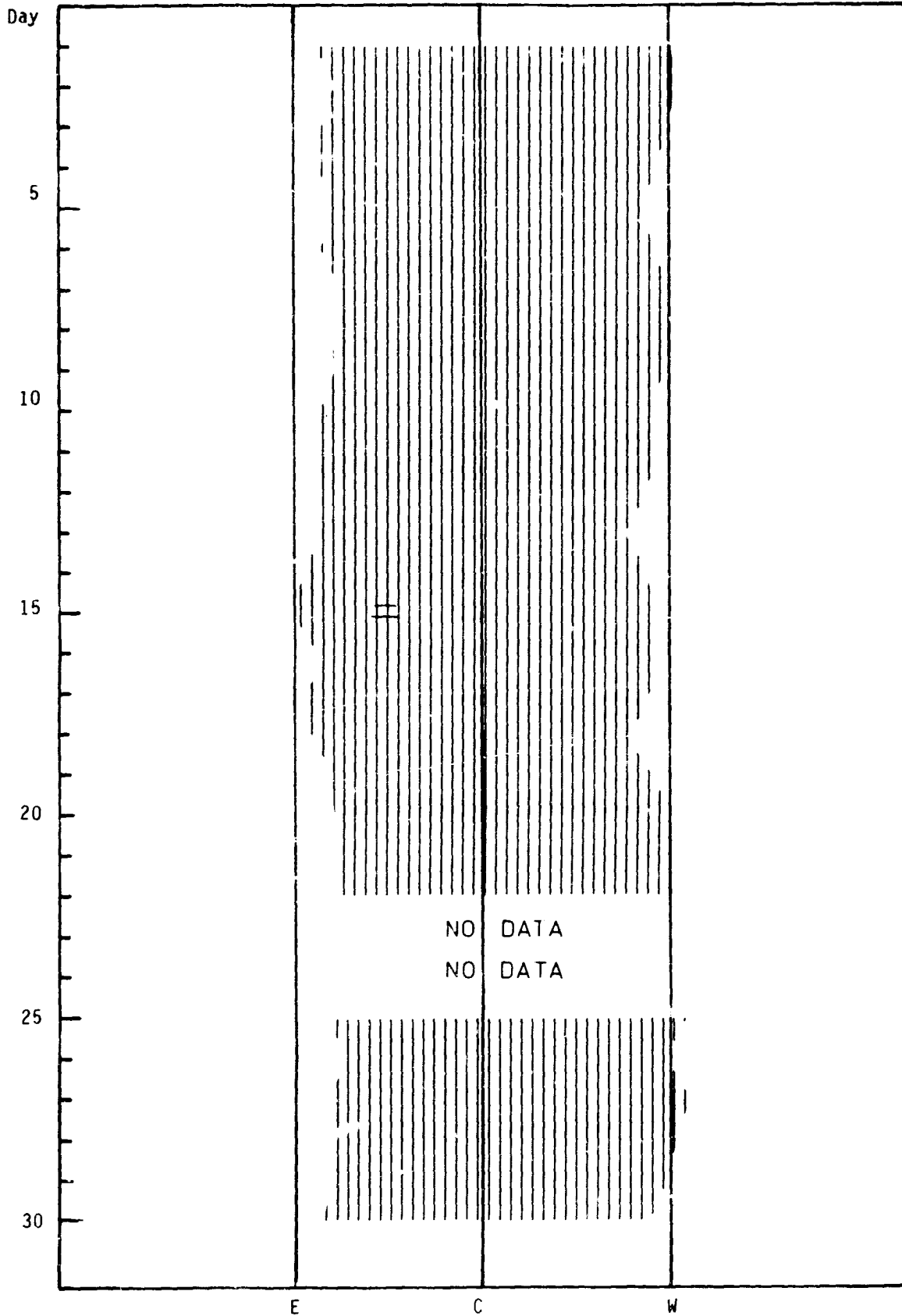
14
Nov 85

SOLAR INTERFEROMETRIC OBSERVATIONS

Nancay

NOVEMBER 1985

169 MHz

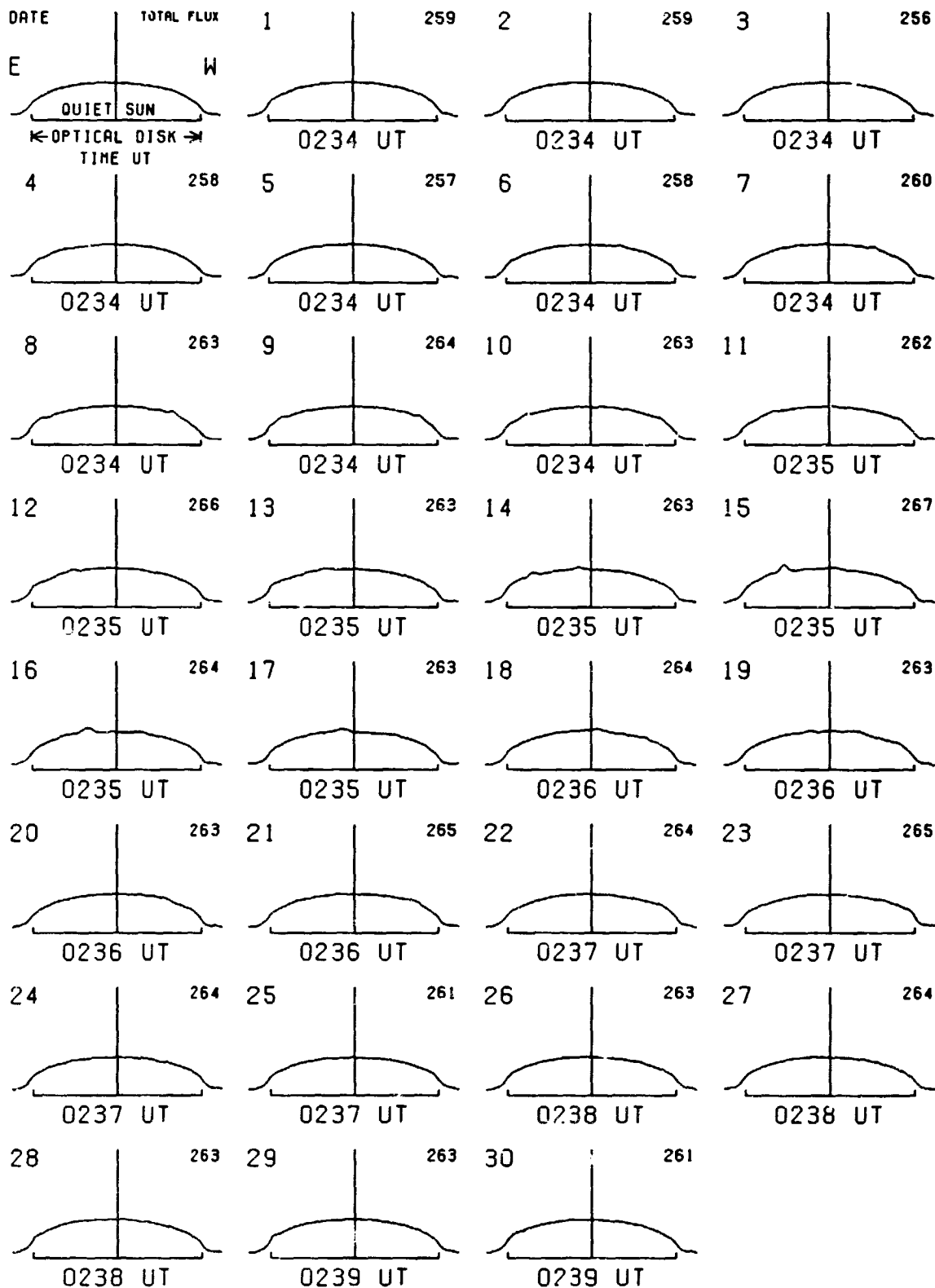


EAST-WEST SOLAR SCANS

NOVEMBER 1985

TOYOKAWA, JAPAN

3 CM
FAN BEAM WITH 1.1 MINUTES OF ARC



16
Nov 85

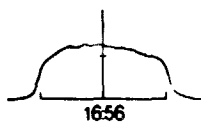
EAST-WEST SOLAR SCANS NOVEMBER 1985

ALGONQUIN RADIO OBSERVATORY
CANADA

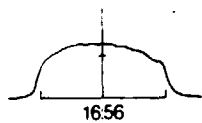
10.7 cm

Fan Beam with 1.5 minutes of arc
E-W Resolution

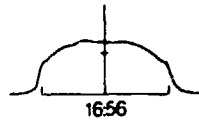
01
70.1



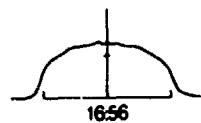
02
69.9



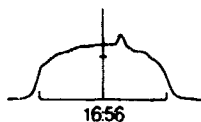
03
69.1



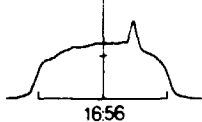
04
68.8



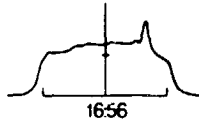
05
69.7



06
71.3



07
73.1



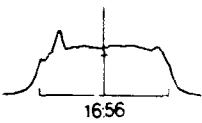
08
75.1



09
74.3



10
74.0



11
76.2



12
76.3



13
75.9



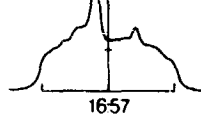
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78.5



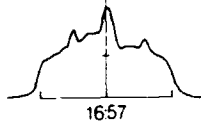
15
85.5



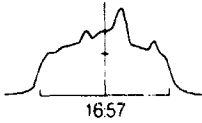
16
80.6



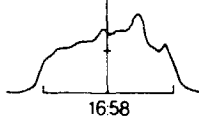
17
79.2



18
79.1



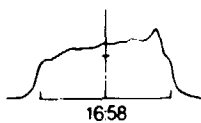
19
77.5



20
77.6



21
75.5



22
75.0



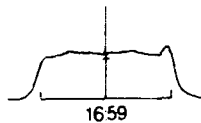
23
74.7



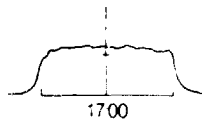
24
73.8



25
72.2



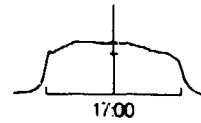
26
71.4



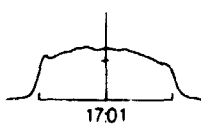
27
71.7



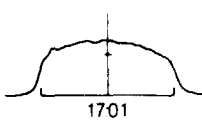
28
70.9



29
71.0



30
70.8



DATE
TOTAL FLUX
E
ESTIMATED
QUIET SUN
LEVEL
W
PHOTOSPHERE
TIME UT

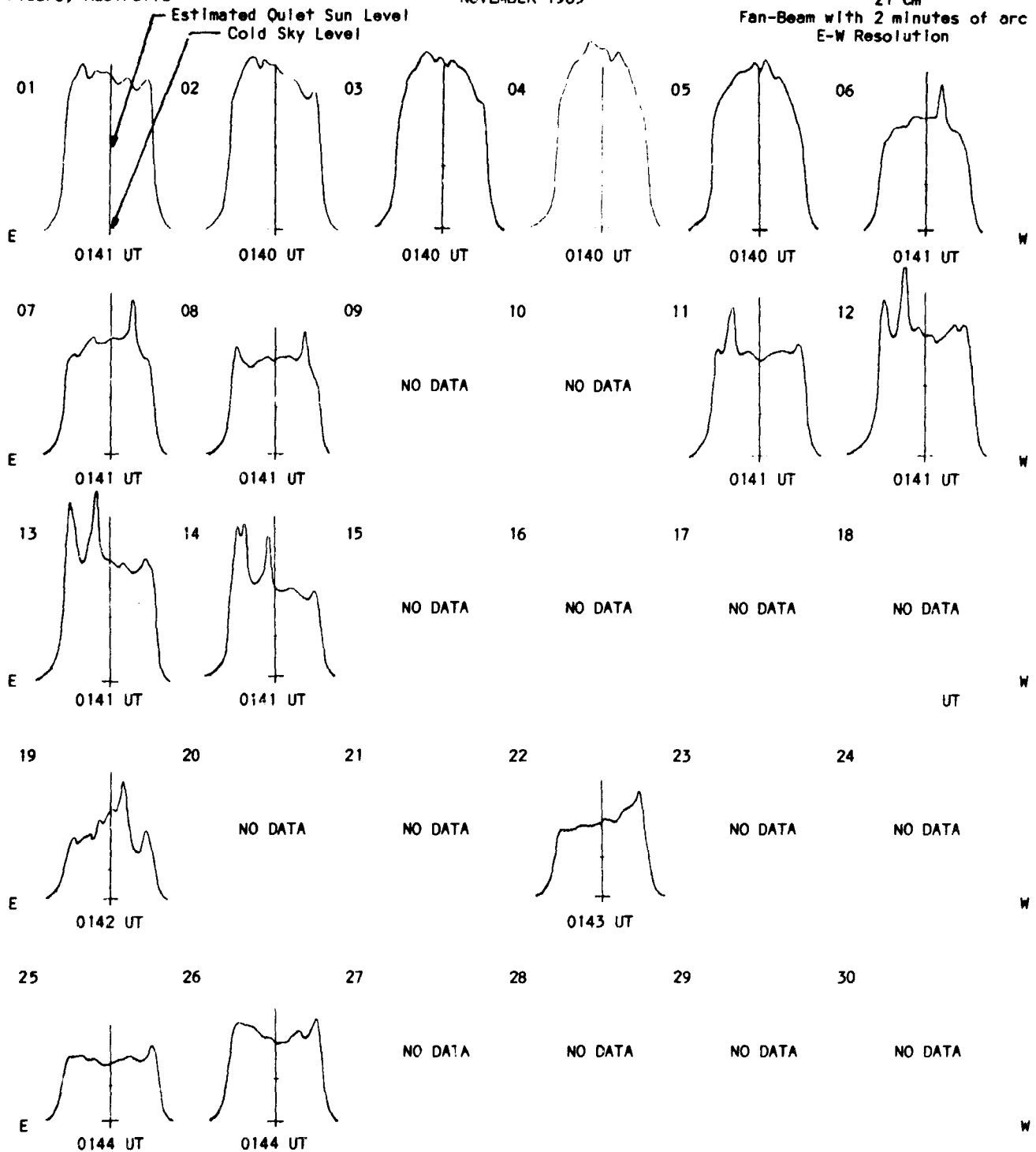
EAST-WEST SOLAR SCANS

17
Nov 85

Flours, Australia

NOVEMBER 1985

21 cm
Fan-Beam with 2 minutes of arc
E-W Resolution



18
Nov 85

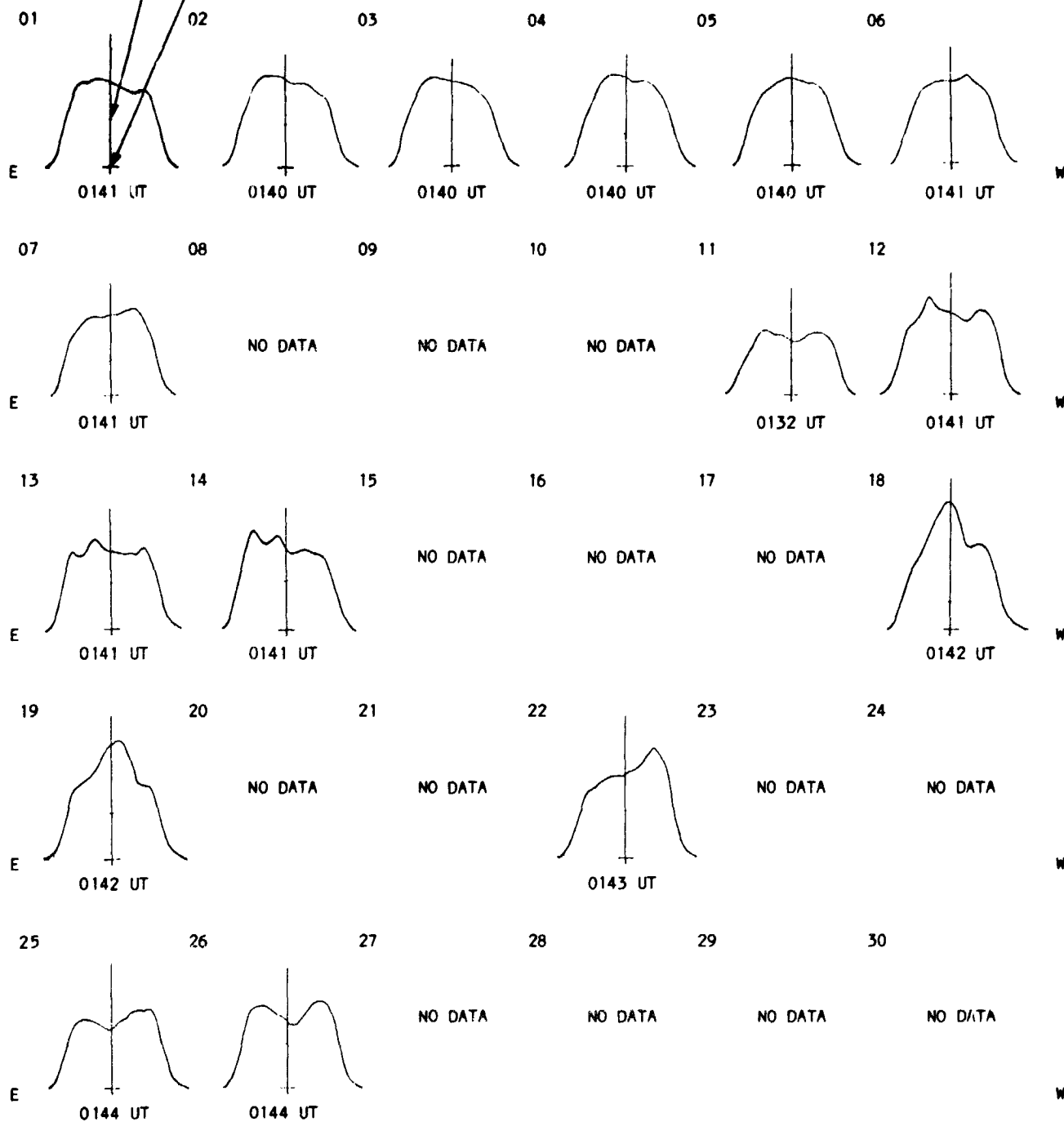
EAST-WEST SOLAR SCANS

Fleours, Australia

NOVEMBER 1985

43 cm
Fan-Beam with 2 minutes of arc
E-W Resolution

Estimated Quiet Sun Level
Cold Sky Level



SOLAR RADIO EMISSION SELECTED FIXED FREQUENCY EVENTS

19
Nov 85

NOVEMBER 1985

Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
						Peak (10 -22	Mean W/m 2 Hz)		
11	2800 OTTA	20 GRF	1725.0	1750.0	75.0	1.0	0.5		
13	2800 OTTA	22 GRF	1700.0	1700.0	25.0	1.4	0.5		
14	245 LEAR	43 NS	2151.0	0334.1	755.00	10.0			QL=6 ST=2 TYP=1
15	2800 OTTA	27 RF	1425.0		190.0	1.6	1.2		
	2800 OTTA	24 R	1425.0	1530.0	65.0	1.6	0.6		
	2800 OTTA	24P R	1530.0		100.0	1.6			
	2800 OTTA	26 FAL	1710.0	1735.0	25.0	-1.6	-0.8		
	2800 OTTA	260 FAL	1800.0	1830.0	30.0	-1.2	-0.6		
17	2800 OTTA	27 RF	1320.0		140.0	1.4	1.1		
	2800 OTTA	24 R	1320.0	1340.0	20.0	1.4	0.7		
	2800 OTTA	24P R	1340.0		80.0	1.4			
	2800 OTTA	26 FAL	1500.0	1540.0	40.0	-1.4	-0.7		

Observatories:

BERN = Berne MANI = Manila OTTA = Ottawa ARO PENT = Penticton SGMR = Sagamore Hill
LEAR = Learmonth ATHN = Athens PALE = Palahua

Explanation of Type Code:

1 Simple 1	7 Minor +	24 Rise	30 Post Burst Increase A	43 Onset on Noise Storm
2 Simple 1F	8 Spike	25 Rise A	31 Post Burst Decrease	44 Noise Storm In Progress
3 Simple 2	20 Simple 3	26 Fall	32 Absorption	45 Complex
4 Simple 2F	21 Simple 3A	27 Rise and Fall	40 Fluctuation	46 Complex F
5 Simple	22 Simple 3F	28 Precursor	41 Group of Bursts	47 Great Burst
6 Minor	23 Simple 3AF	29 Post Burst Increase	42 Series of Bursts	48 Major
				49 Major +

Remarks:

QL = Quality (1=poor to 6=excellent)

ST = Status (1=real time; 2=final; 3=correction; 4=deletion)

TYP = Type (1=noise storm; 2=rise in base level; 3=minor; 4=group; 5=major; 6=major plus; 7=Castelli U-type burst)

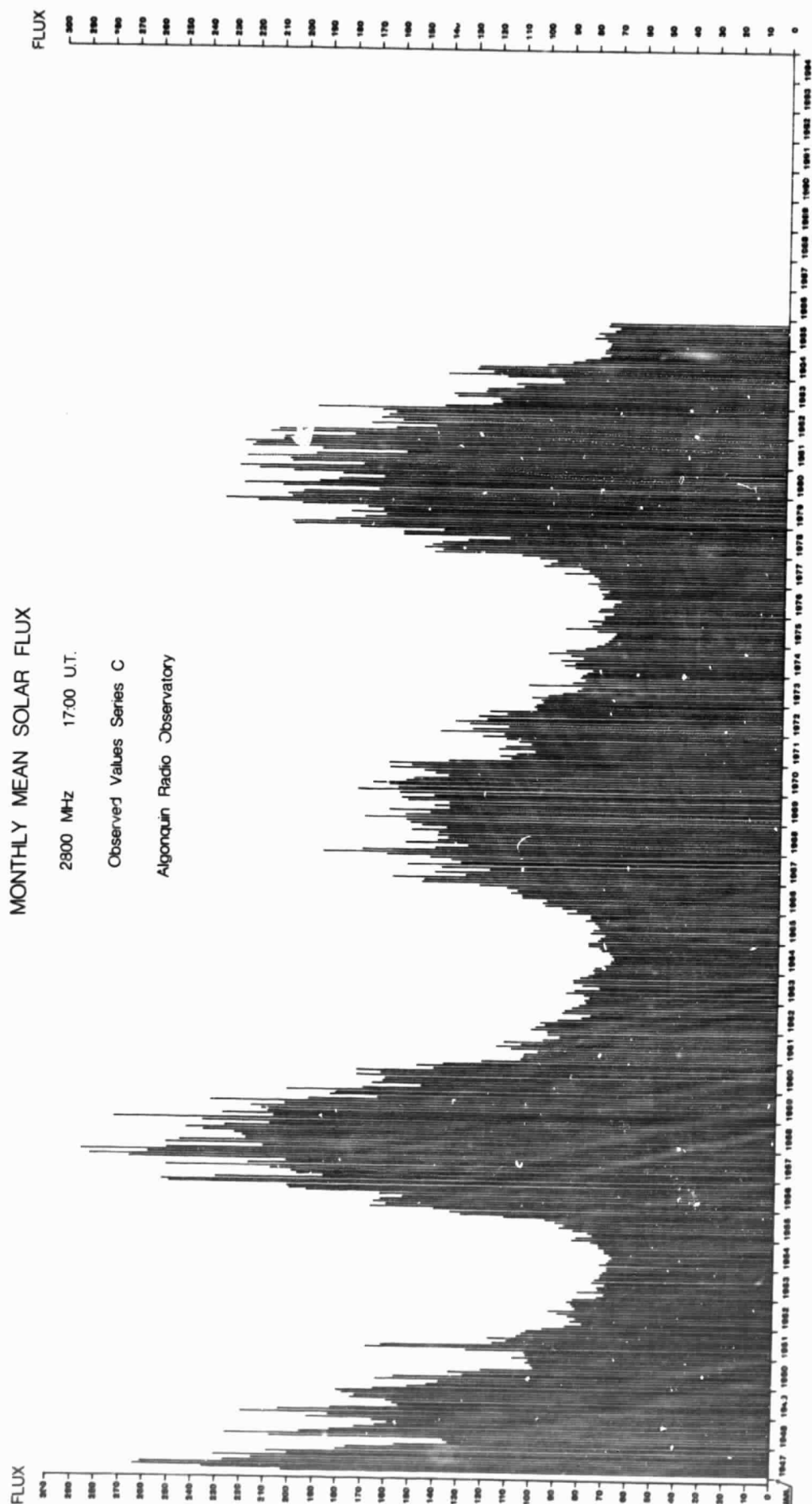
20
Nov 85

MONTHLY MEAN SOLAR FLUX

2800 MHz 17:00 U.T.

Observed Values Series C

Algonquin Radio Observatory

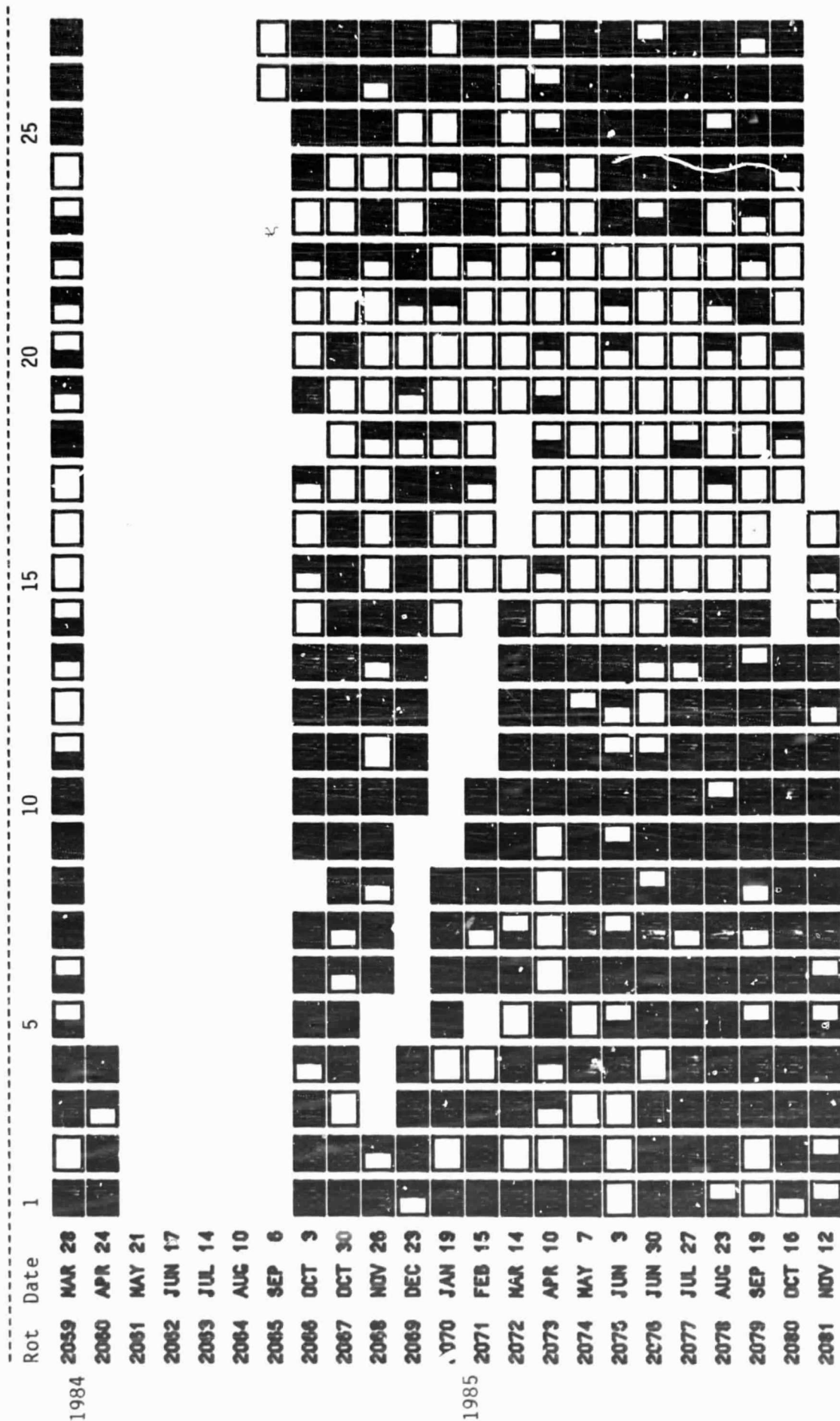


VOSTOK INFERRED INTERPLANETARY MAGNETIC FIELD
PRELIMINARY DATA

December 1984 - November 1985

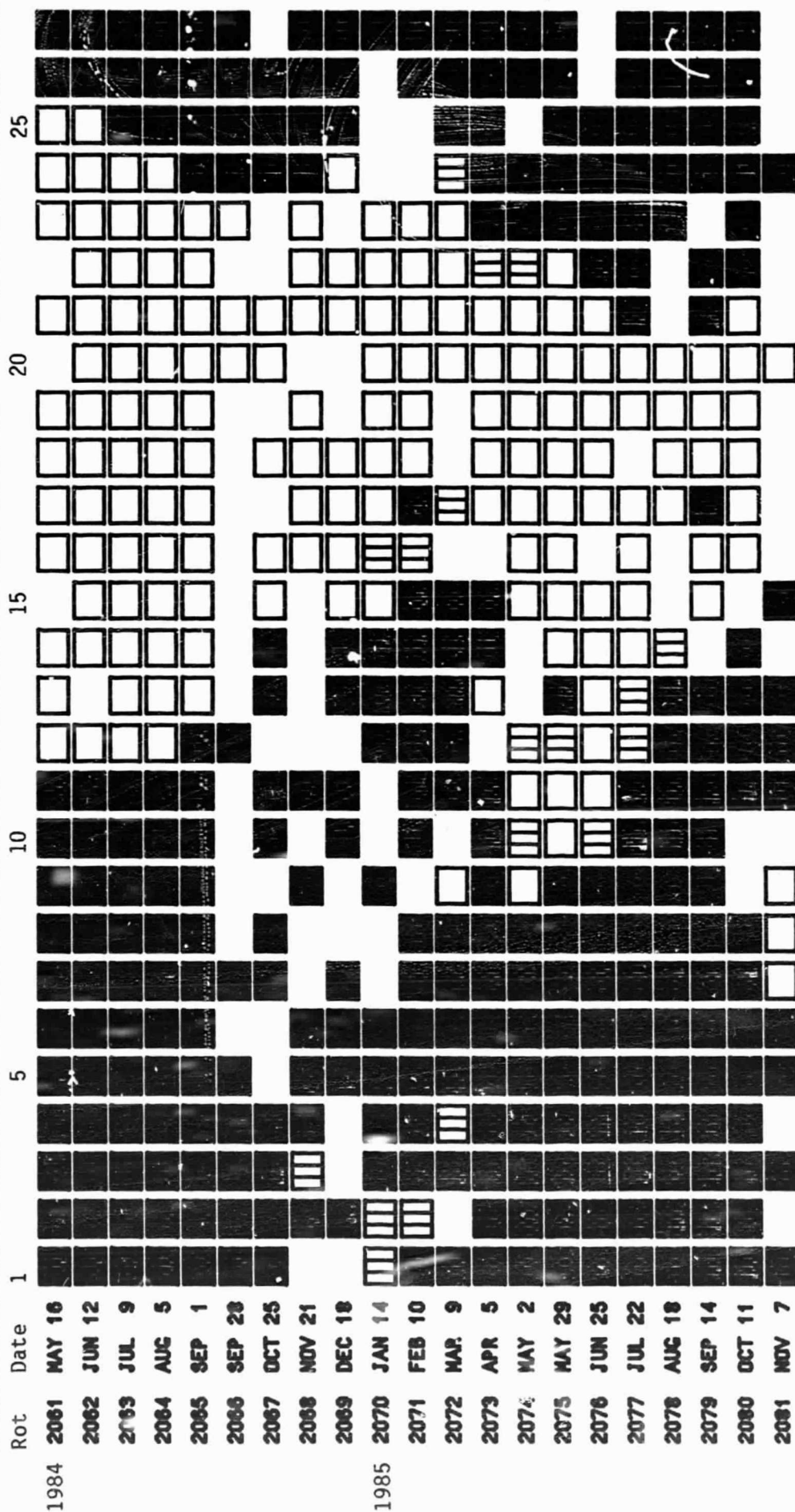
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
1	T	T	A	A	A	AT	T	T	T	TA	TA	A
2	T	T	A	A	A	A	T	T	AT	T	T	AT
3	AT	T	A	AT	A	AT	A	A	T	T	A	A
4	T	T	T	A	A	TA	A	T	T	T	A	AT
5	T	T	AT	A	A	TA	A	T	T	T	A	A
6	A	T	A	A	A	TA	T	T	T	A	A	A
7	T	T	A	A	A	T	TA	TA	T	A	A	A
8	AT	T	AT	AT	A	T	T	T	AT	AT	A	AT
9	T	AT	A	T	T	A	TA	T	T	A	T	T
10	A	AT	T	T	T	T	T	TA	A	A	AT	T
11	A	A	AT	T	A	A	TA	A	A	AT	AT	T
12	A	AT	A	T	AT	T	T	AT	A	AT	T	TA
13	AT	T	T	T	AT	T	TA	A	TA	A	T	TA
14	A	A	A	T	T	T	AT	A	A	A	T	T
15	A	A	T	A	A	T	T	A	A	T	AT	T
16	A	A	T	T	A	T	A	A	A	TA	AT	TA
17	AT	T	T	T	A	T	A	A	A	T	T	TA
18	T	T	A	A	A	TA	A	A	T	T	T	T
19	A	T	-	T	T	T	A	A	T	A	T	T
20	T	A	T	TA	T	A	A	A	T	A	T	T
21	AT	T	AT	T	T	A	A	A	T	T	T	T
22	T	A	T	T	T	A	AT	TA	T	T	T	T
23	AT	T	T	T	A	A	AT	T	TA	TA	T	AT
24	T	T	T	T	AT	A	A	T	T	T	T	T
25	T	T	-	T	.	A	T	T	T	AT	T	TA
26	T	T	-	T	A	A	T	TA	T	AT	T	AT
27	-	-	-	T	TA	A	T	T	T	T	T	A
28	-	-	-	A	TA	A	T	T	T	T	-	-
29	-	-	-	-	AT	A	T	T	T	T	-	-
30	-	-	-	-	A	A	T	T	T	T	-	-
31	-	-	-	-	.	T	T	T	T	T	-	-

VOSTOK INFERRED INTERPLANETARY MAGNETIC FIELD



The chart shows the daily inferences of the polarity of the interplanetary magnetic field based principally on the magnetograms produced by the magnetometer at the Vostok Antarctic Station of the USSR.

STANFORD MEAN SOLAR MAGNETIC FIELD



Mean Solar Magnetic Field Polarity: = field > 2 microT; = -2 microT ≤ field ≤ 2 microT; = field < -2 microT; No box = no data available

Observations are taken at 2000 UT. Rotation numbers given are the Bartels series, but the dates are not; these dates mark times of occurrence of phenomena on the Sun that affect the Earth during the given Bartels Rotation.

24
Nov 85

STANFORD MEAN SOLAR MAGNETIC FIELD (MICROTESLA)

Day	Dec 84	Jan 85	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
1	-32	5	38	31	2	-5	-10	-16	-5	.	13	-7
2	.	14	35	27	-10	-8	-7	-14	1	.	15	-10
3	.	21	32	16	-14	-9	-11	-5	2	7	6	-8
4	.	38	30	13	-13	-5	-12	2	8	3	-6	-15
5	.	.	15	.	-17	-5	-11	5	11	5	-13	-16
6	15	.	.	.	-20	-5	-3	17	6	3	.	-25
7	28	37	.	-8	-7	-8	4	31	10	.	-20	-26
8	44	26	.	-17	-13	-8	6	24	.	.	-23	.
9	30	.	-4	-13	-6	-5	-1	22	3	-26	-26	-17
10	.	6	-5	.	-13	4	-4	.	8	-24	-27	.
11	39	-10	-1	-4	-29	2	3	12	-9	-24	-21	-6
12	27	-8	-2	-1	-19	8	12	7	-16	-22	-23	-5
13	12	-10	-8	-3	-21	1	22	5	-24	-25	-16	5
14	-10	-1	-9	-15	-13	.	21	8	-28	-24	-26	11
15	-12	1	-23	-12	-12	.	19	6	-22	-21	-20	6
16	-20	-7	-17	-6	.	11	17	-10	-23	-21	-27	.
17	-11	-3	-13	10	3	22	13	-27	-22	-25	-21	-3
18	.	-25	.	.	-7	33	15	-27	-20	-29	-25	-2
19	-8	-35	-12	-7	-10	48	7	-24	-20	-28	.	-11
20	.	.	-17	-6	.	39	-10	.	-17	-22	.	.
21	.	.	-15	-12	5	27	-21	.	-19	-21	-17	-5
22	-24	50	-12	-12	6	25	-16	-19	-22	-23	-17	.
23	-35	.	-7	-5	18	0	-13	-19	-18	-16	-12	.
24	-46	.	-6	.	23	-9	-13	-10	-22	-10	-8	.
25	.	-9	2	1	18	-21	-16	-14	-28	-6	.	.
26	.	-12	-6	.	1	.	-12	-19	-25	-5	4	15
27	-23	-2	13	.	-12	-18	-12	-27	-15	.	19	.
28	-22	32	20	37	-27	-8	-9	-26	-9	11	17	.
29	.	0	.	24	-32	-8	-13	-27	-4	12	14	.
30	-9	19	.	16	-47	-9	-9	-25	-2	-6	16	-8
31	-3	28	.	12	.	-5	.	-22	1	.	5	.

Dot symbol indicates no data available for the day.

C O N T E N T S

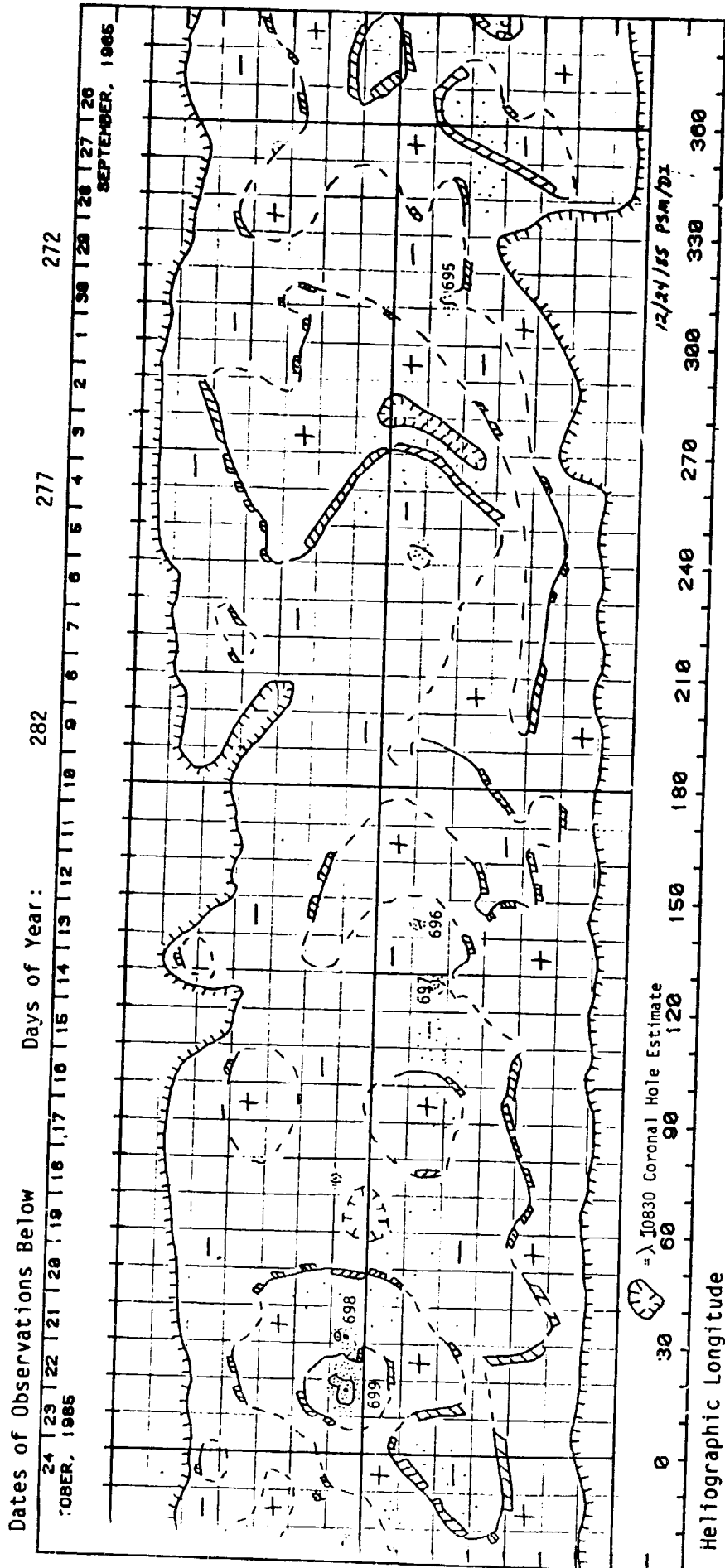
Prompt Reports

DATA FOR OCTOBER 1985

Number 496 Part I

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PRELIMINARY H-ALPHA SOLAR SYNOPSIS CHART
CARRINGTON ROTATION NUMBER 1767
(September 26 to October 24, 1985)



SOLAR MAGNETIC FIELD SYNOPSIS CHART CARRINGTON ROTATION NUMBER 1767 (September 26 to October 24, 1985)

Stanford Solar Observatory

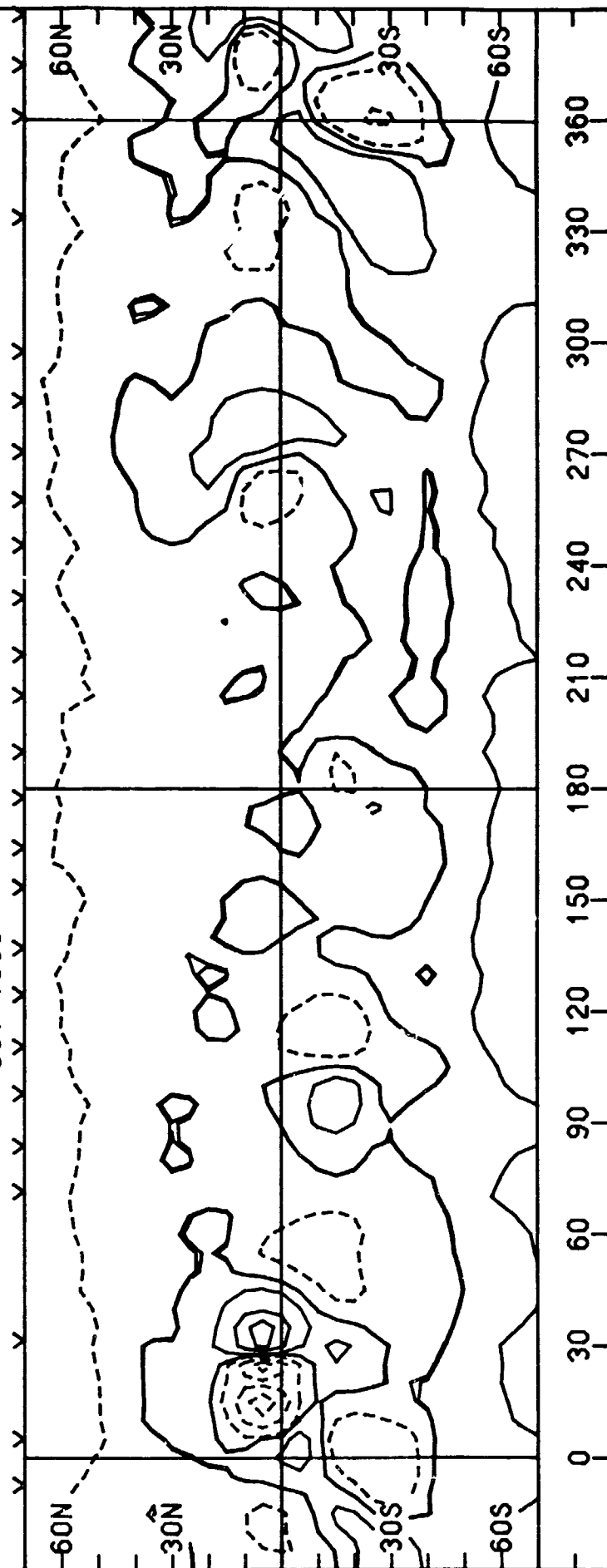
0, +100, 500, 1000, 2000 millitesla

100

-100

125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106 105 104 103 102 101 100 99 98 97 96 95 94 93 92 91 90 89 88 87 86 85 84 83 82 81 80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62 61 60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26

OCT 1985



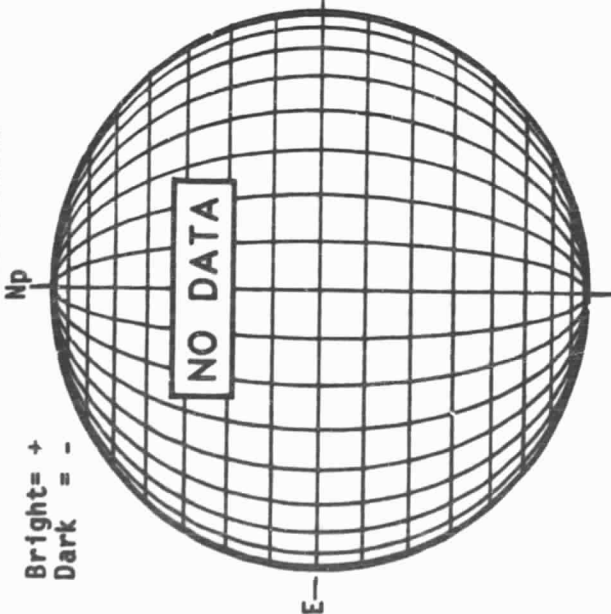
Heliographic Longitude

27
Oct 85

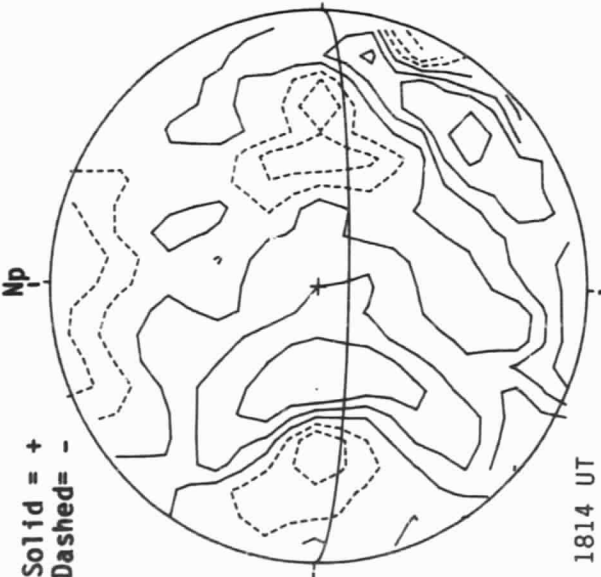
OCTOBER 01, 1985 (P= 25.92, B₀ = 6.63, L₀ = 306.38)

28
Oct 85
DeltaY=12.4
DeltaX= 9.6

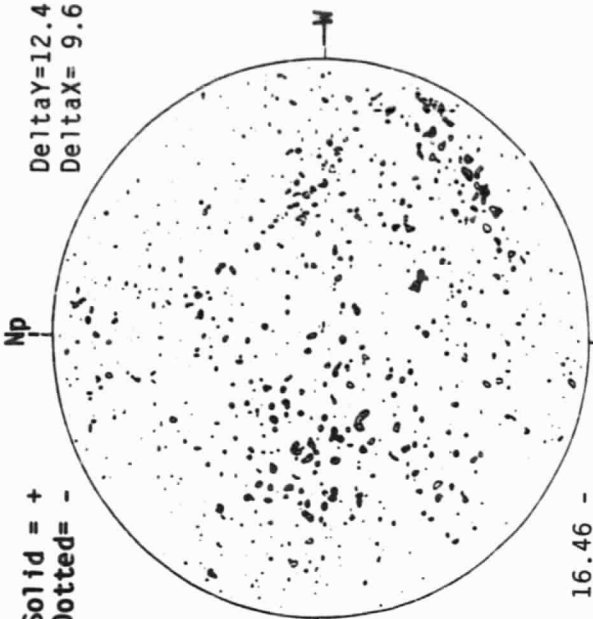
KITT PEAK MAGNETOGRAM



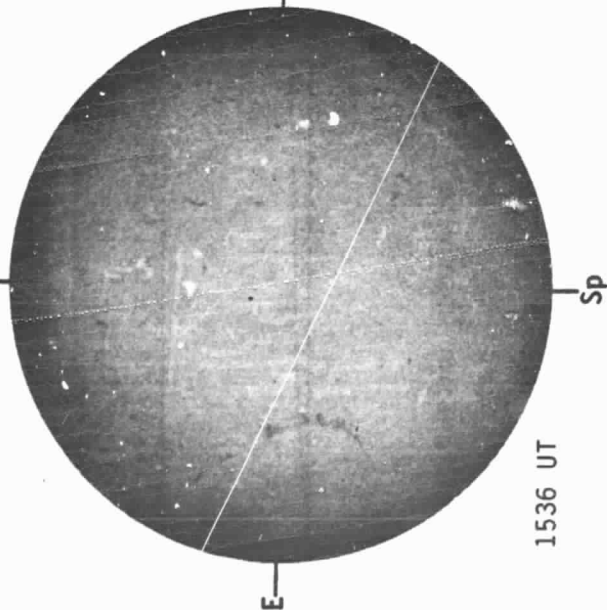
STANFORD MAGNETOGRAM



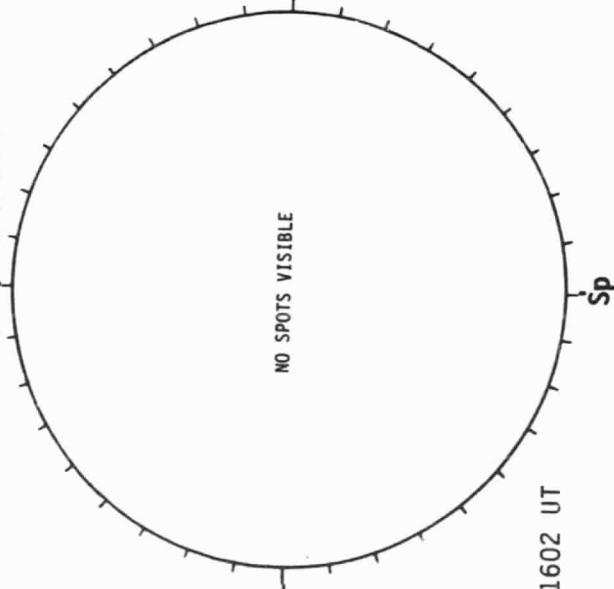
MT. WILSON MAGNETOGRAM



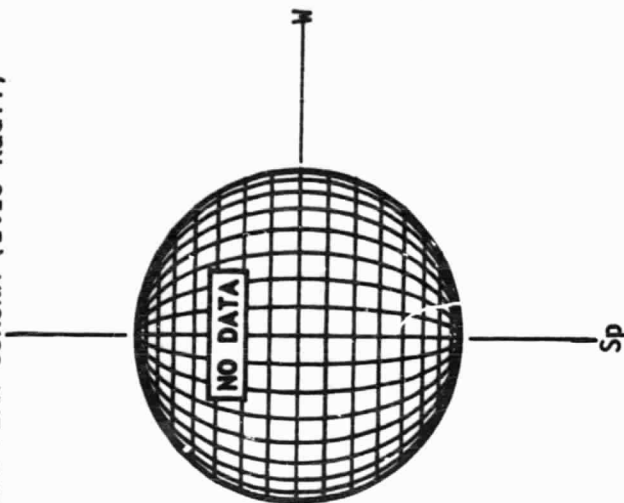
SACRAMENTO PEAK H-ALPHA



HOLLOMAN SUNSPOTS



SACRAMENTO PEAK CORONA (1.15 Radii)

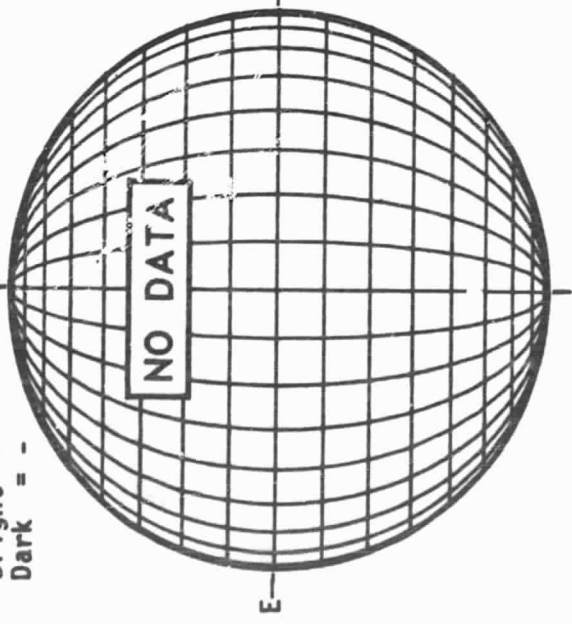


OCTOBER 02, 1985 (P= 25.99, B₀ = 6.58, L₀ = 293.19)

KITT PEAK MAGNETOGRAM

Bright = +
Dark = -

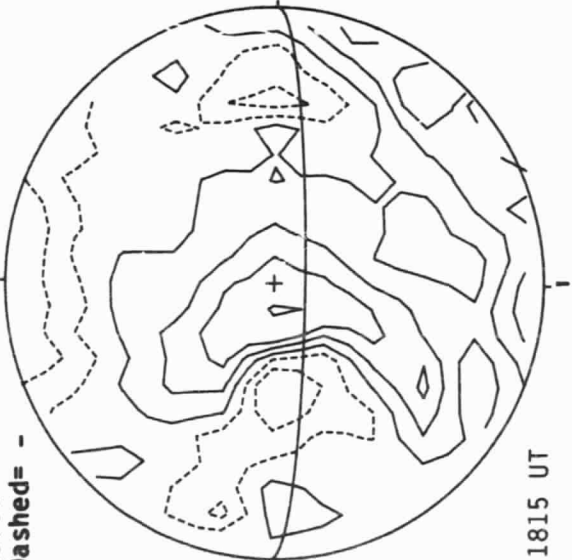
Np



STANFORD MAGNETOGRAM

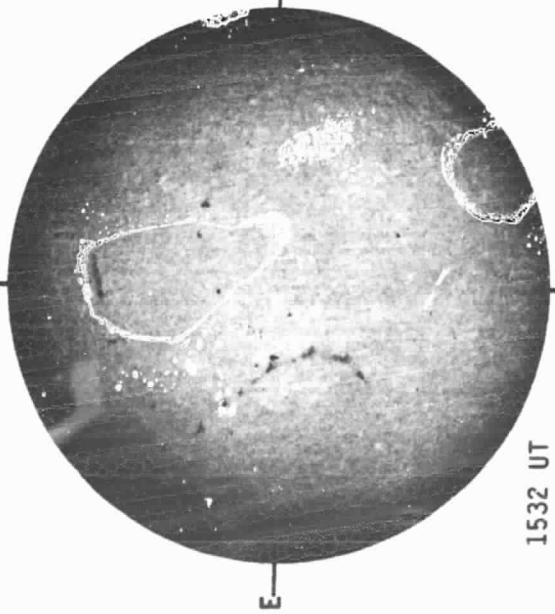
Solid = +
Dashed = -

Np



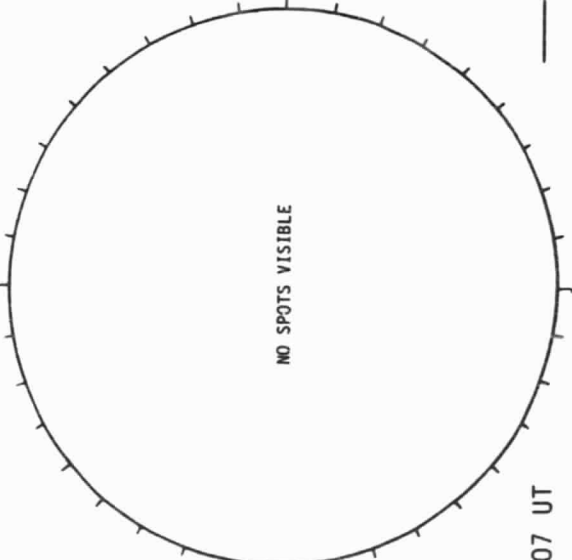
1815 UT

SACRAMENTO PEAK H-ALPHA



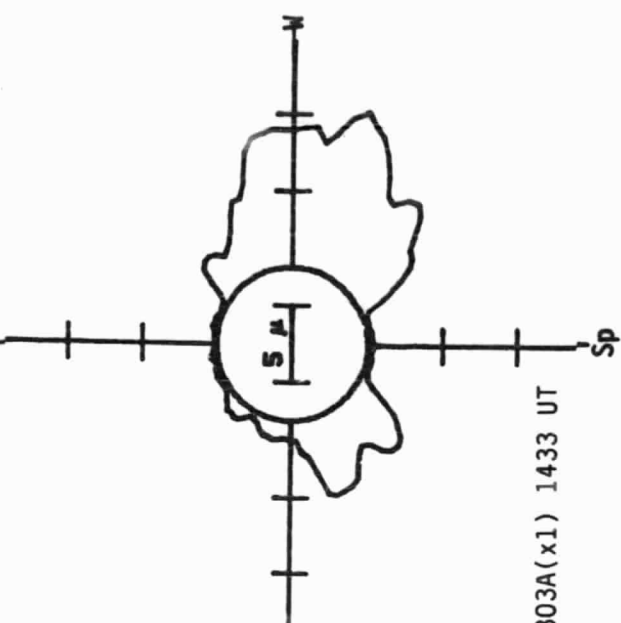
1532 UT

HOLLOMAN SUNSPOTS



1807 UT

SACRAMENTO PEAK CORONA (1.15 Radii)

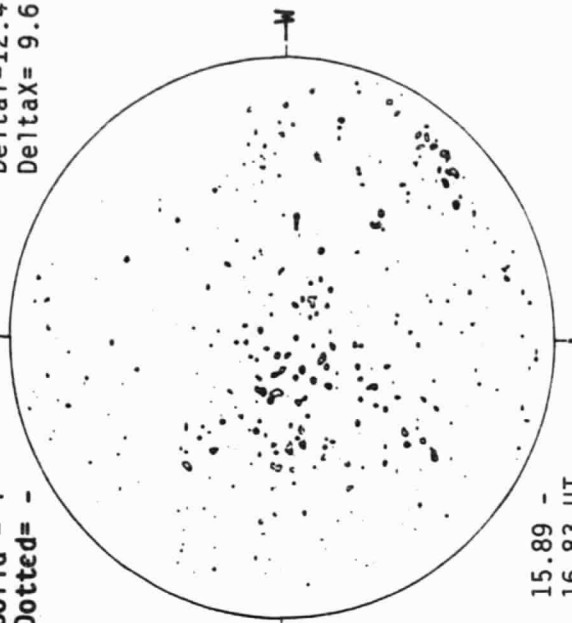


5303A(x1) 1433 UT

MT. WILSON MAGNETOGRAM

Solid = +
Dotted = -

Np



15.89 -
16.83 UT

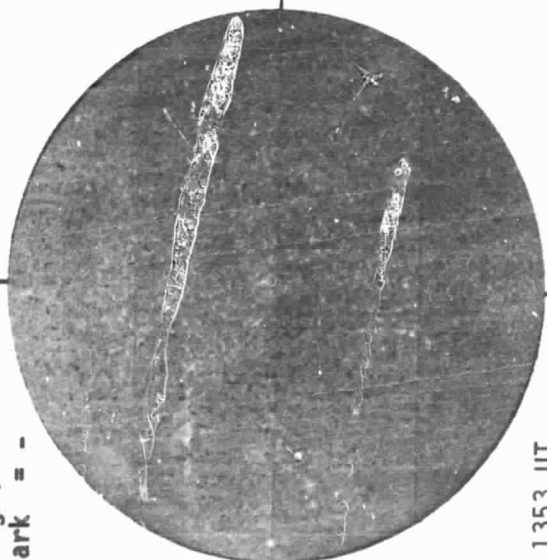
DeltaY=12.4
DeltaX= 9.6

OCTOBER 03, 1985 (P= 26.04, B₀ = 6.53, L₀ = 279.99)

KITT PEAK MAGNETOGRAM

Bright = +
Dark = -

Np

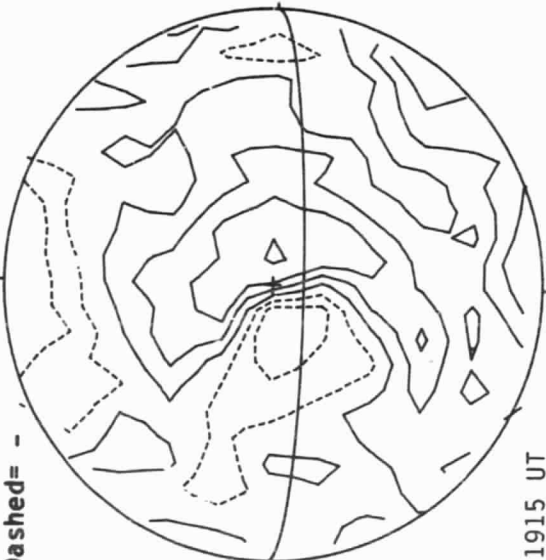


1353 UT

STANFORD MAGNETOGRAM

Solid = +
Dashed = -

Np

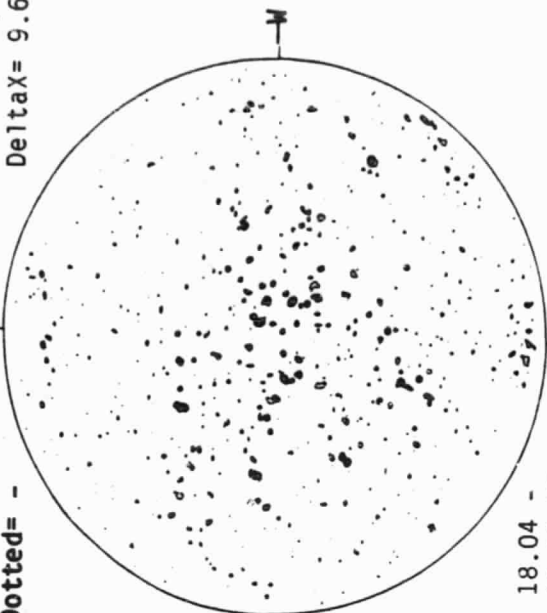


1915 UT

MT. WILSON MAGNETOGRAM

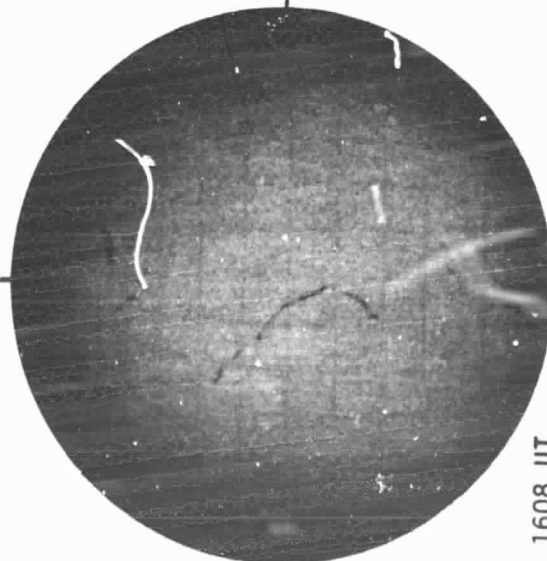
Solid = +
Dotted = -

Np



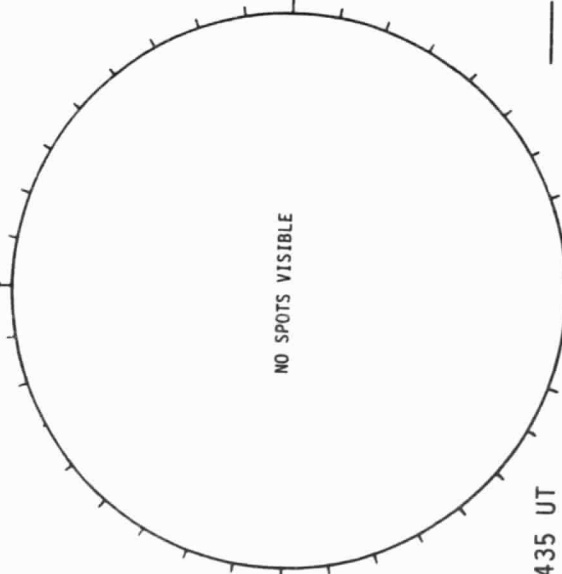
18.04 -
18.98 UT

SACRAMENTO PEAK H-ALPHA



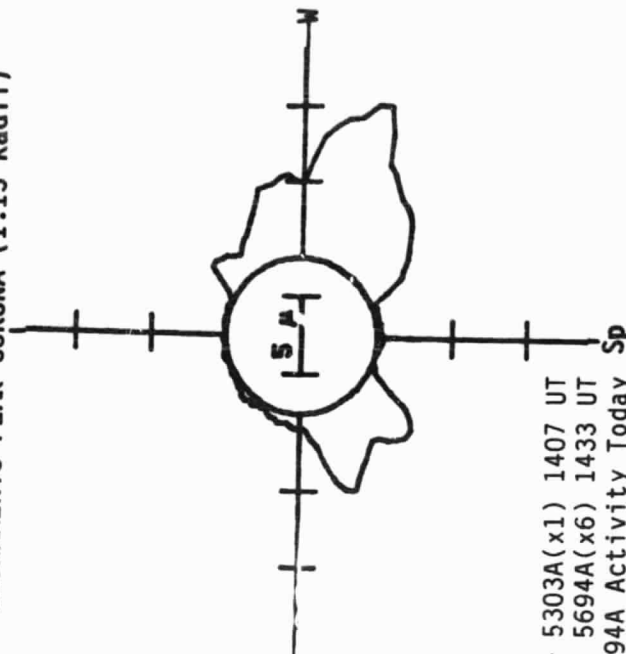
1608 UT

BOULDER SUNSPOTS



1435 UT

SACRAMENTO PEAK CORONA (1.15 Radfi)



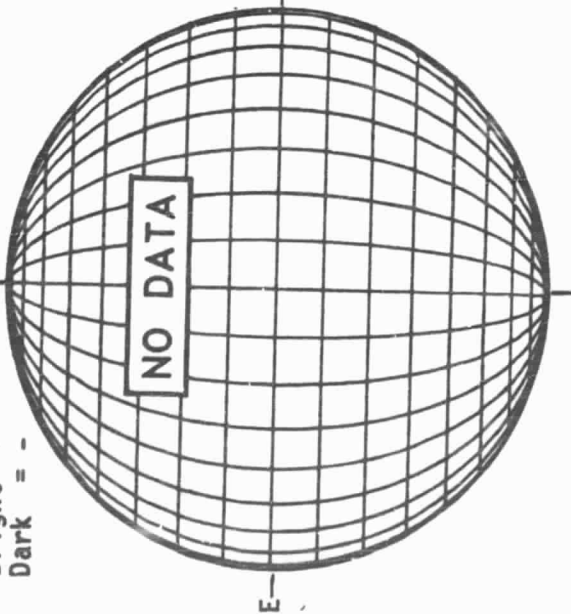
5303A(x1) 1407 UT
xxxx 5694A(x6) 1433 UT
No 5694A Activity Today

30
Oct 85
Delta Y = 12.3
Delta X = 9.6

O C T O B E R 04, 1 9 8 5 (P= 26.09, B₀ = 6.48, L₀ = 266.80)

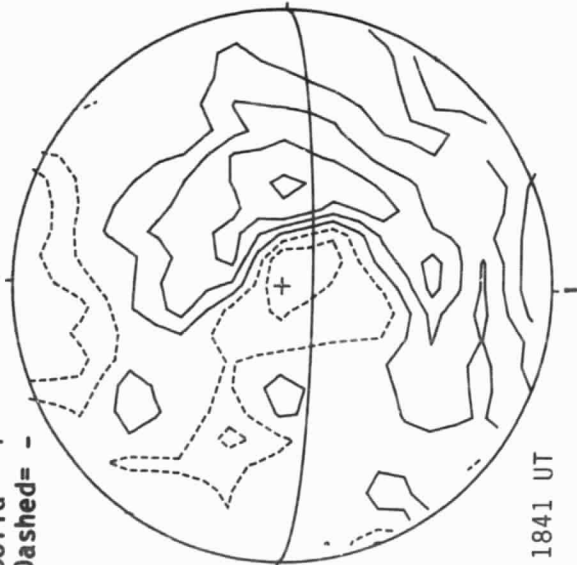
KITT PEAK MAGNETOGRAM

Bright = +
Dark = -



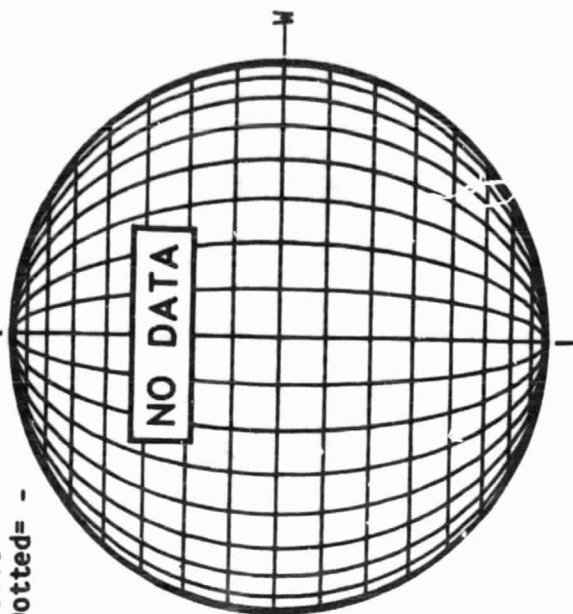
STANFORD MAGNETOGRAM

Solid = +
Dashed = -

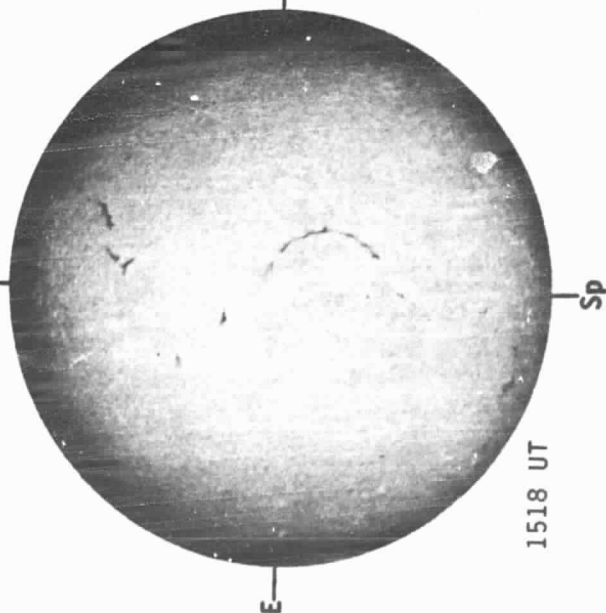


MT. WILSON MAGNETOGRAM

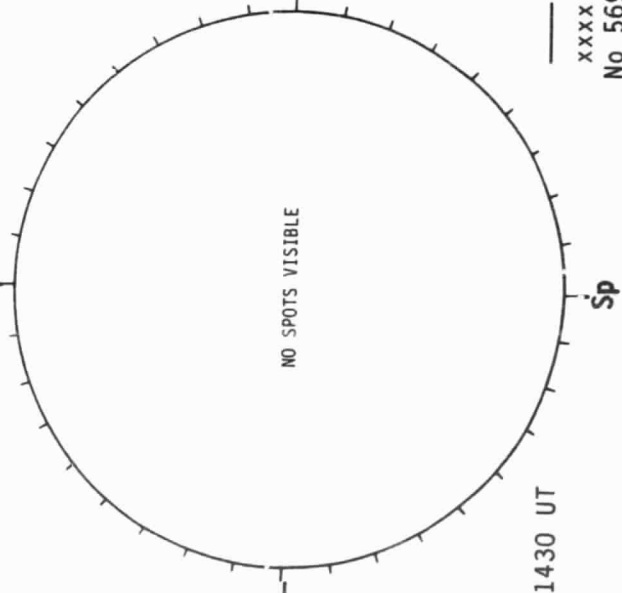
Solid = +
Dotted = -



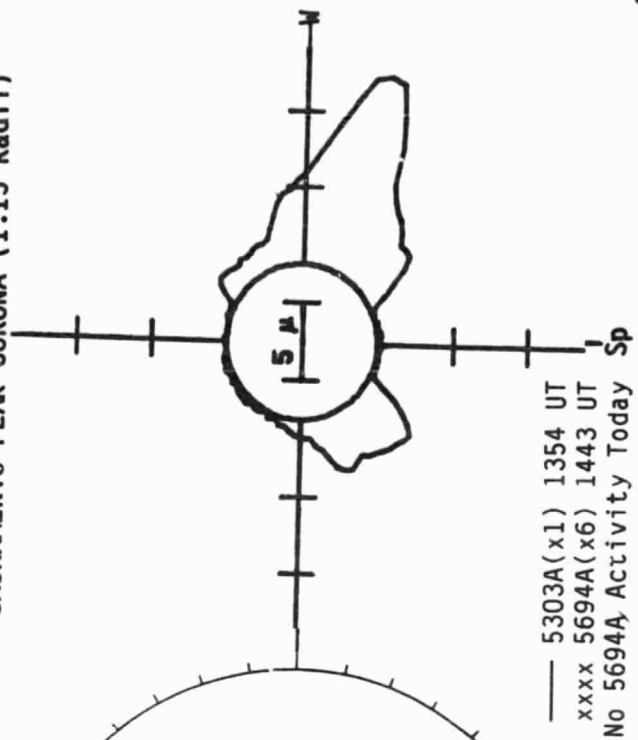
SACRAMENTO PEAK H-ALPHA



BOULDER SUNSPOTS



SACRAMENTO PEAK CORONA (1.15 Radfi)



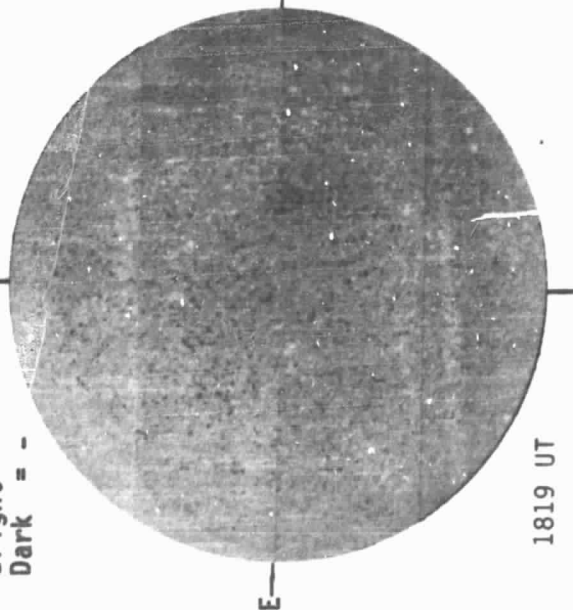
— 5303A(x1) 1354 UT
xxxx 5694A(x6) 1443 UT
No 5694A Activity Today

OCTOBER 05, 1985 (P= 26.13, $B_0 = 6.43$, $L_0 = 253.60$)
 32
 Oct 85
 $\Delta t_{AY} = 12.45$
 $\Delta t_{EX} = 9.7$

KITT PEAK MAGNETOGRAM

Bright = +
 Dark = -

Np



1819 UT

STANFORD MAGNETOGRAM

Solid = +
 Dashed = -

Np

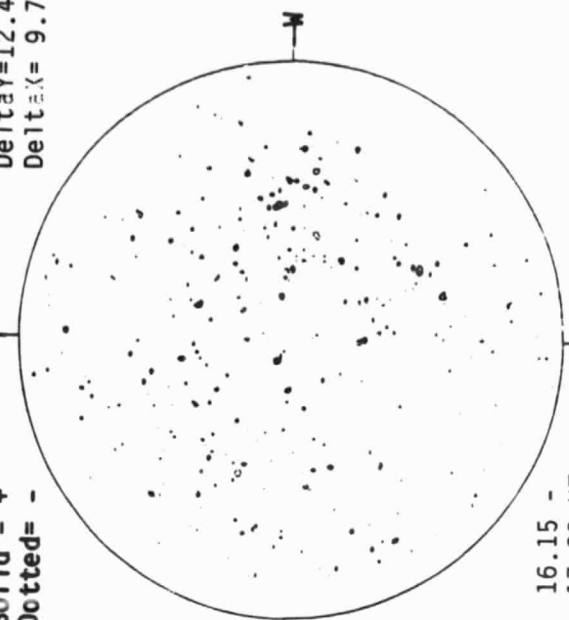


1710 UT

MT. WILSON MAGNETOGRAM

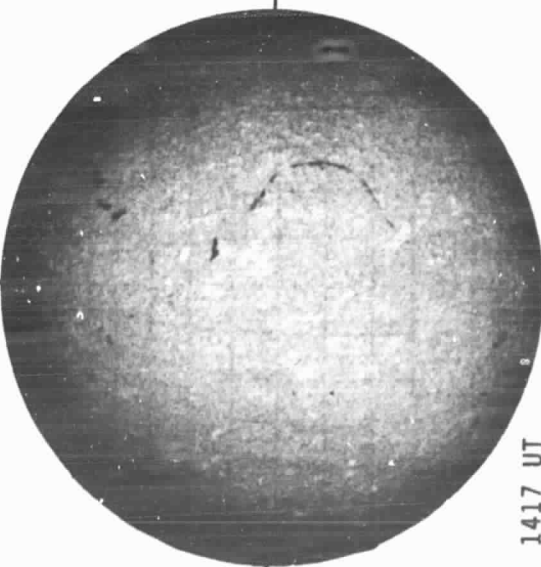
Solid = +
 Dotted = -

Np



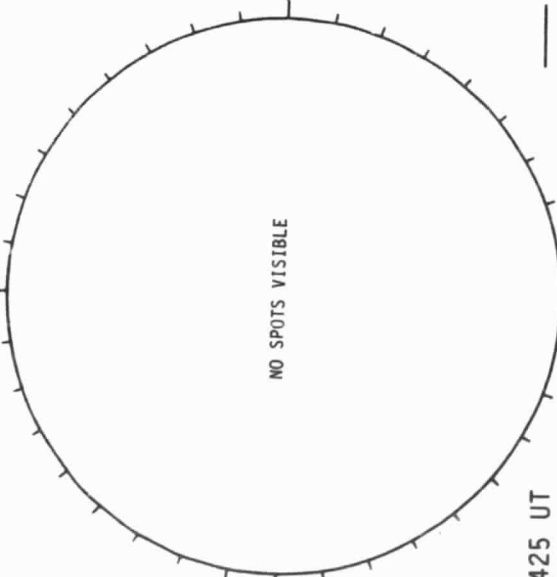
16.15 -
 17.09 UT

SACRAMENTO PEAK H-ALPHA



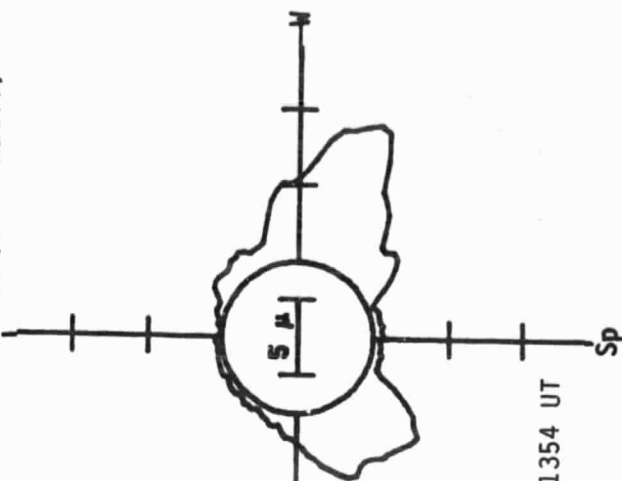
1417 UT

BOULDER SUNSPOTS



1425 UT

SACRAMENTO PEAK CORONA (1.15 Rad11)



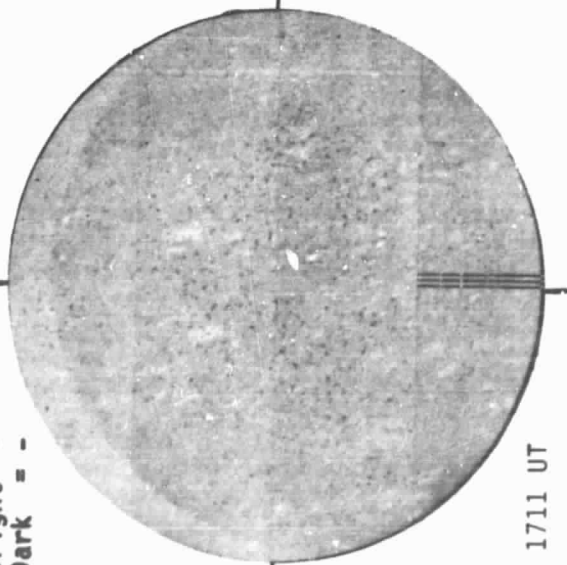
5303A(x1) 1354 UT

OCTOBER 06, 1985 (P= 26.16, B₀ = 6.38, L₀ = 240.41)

KITT PEAK MAGNETOGRAM

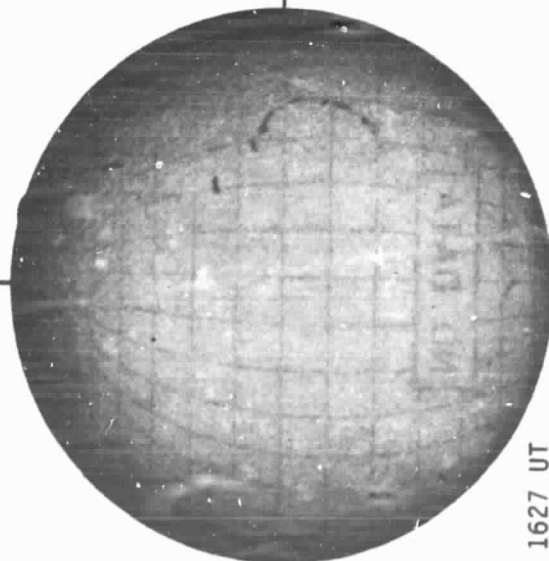
Bright = +
Dark = -

Np



1711 UT

SACRAMENTO PEAK H-ALPHA

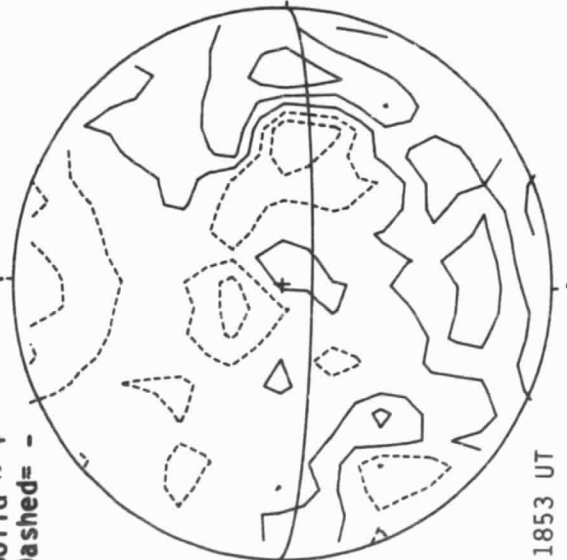


1627 UT

STANFORD MAGNETOGRAM

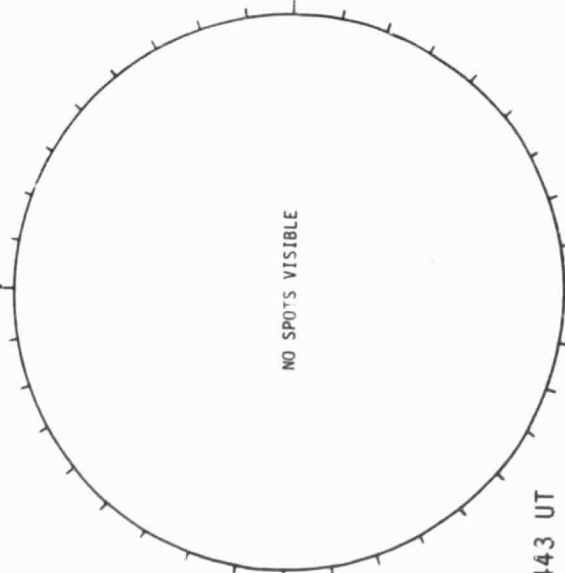
Solid = +
Dashed = -

Np



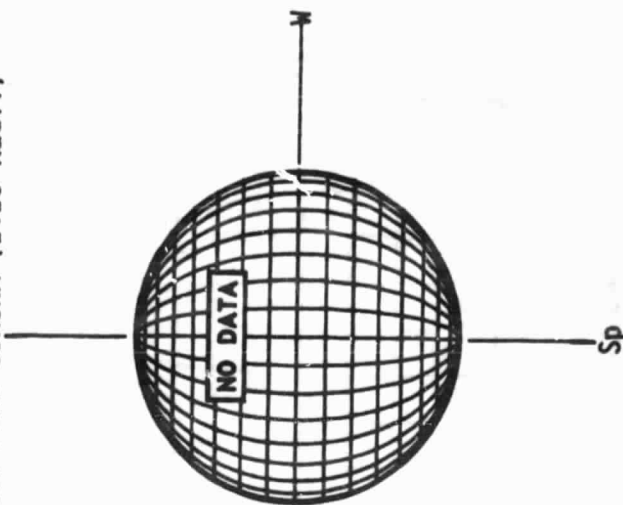
1853 UT

BOULDER SUNSPOTS



1443 UT

SACRAMENTO PEAK CORONA (1.15 Radfi)

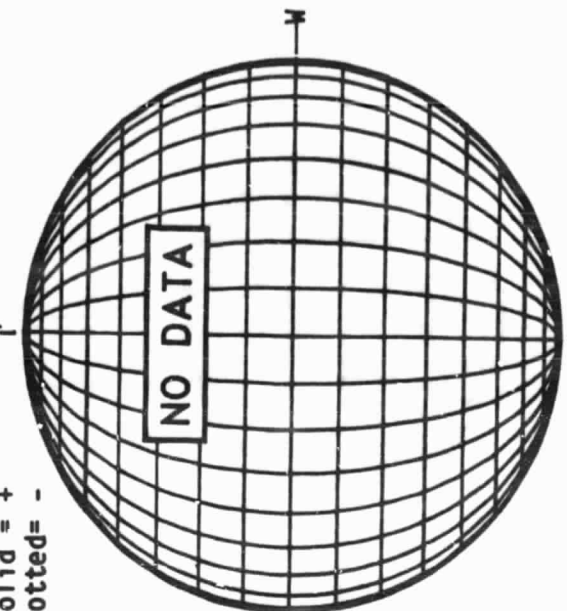


Sp

MT. WILSON MAGNETOGRAM

Solid = +
Dotted = -

Np

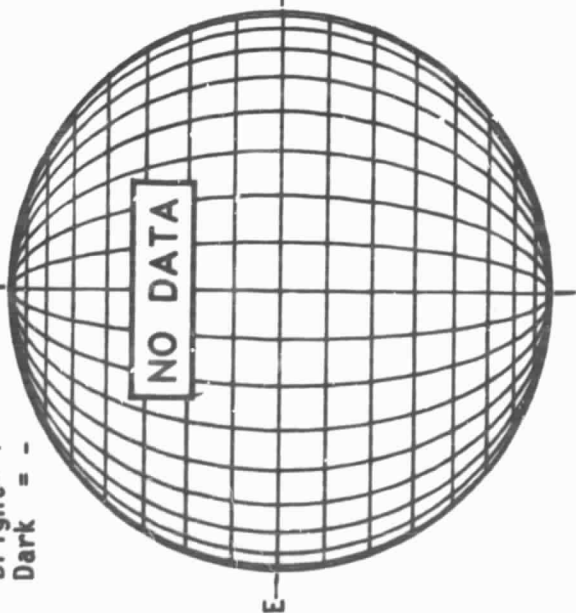


1711 UT

OCTOBER 07, 1985 (P= 26.19, $B_0 = 6.32$, $L_0 = 227.21$)

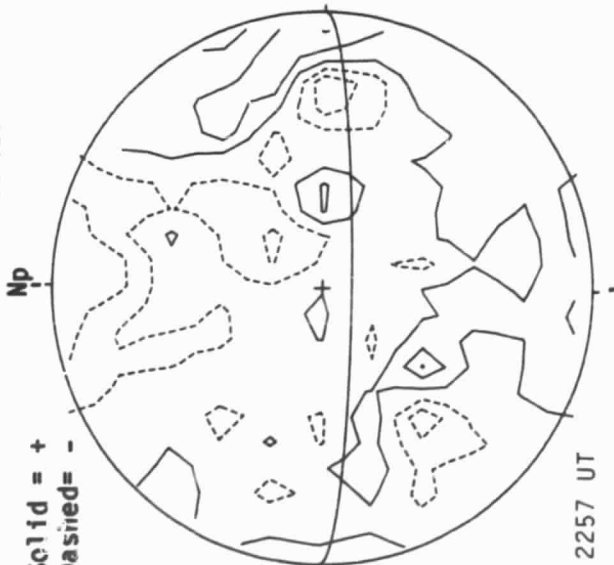
KITT PEAK MAGNETOGRAM

Bright = +
Dark = -



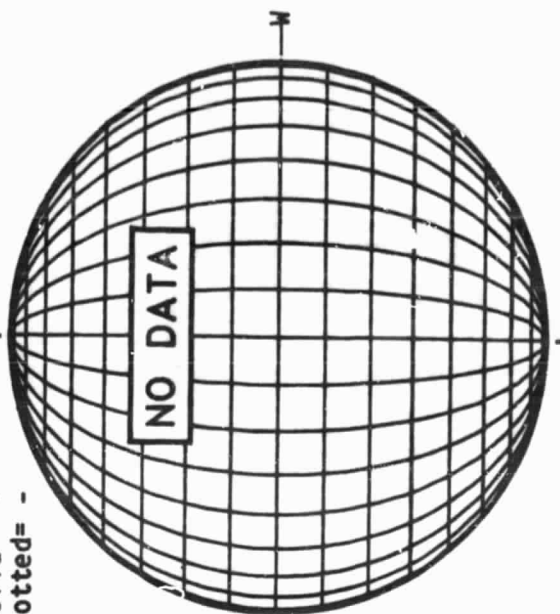
STANFORD MAGNETOGRAM

Solid = +
Dashed = -

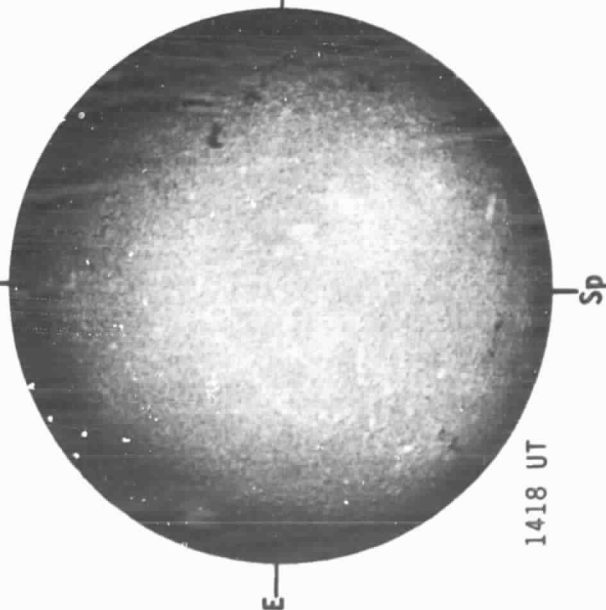


MT. WILSON MAGNETOGRAM

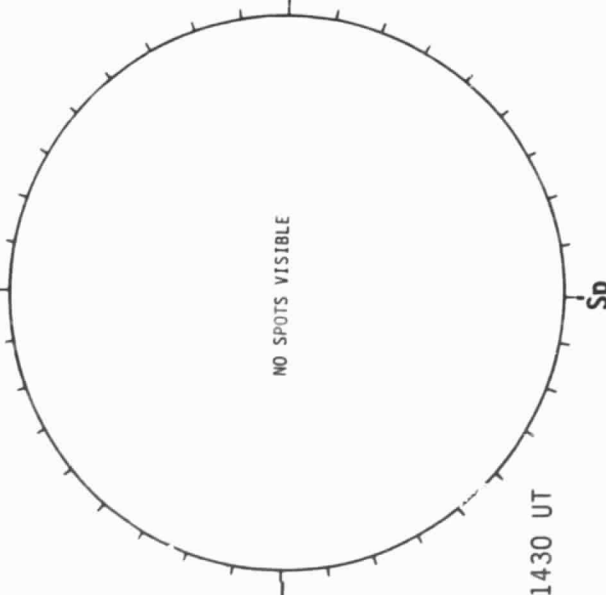
Solid = +
Dotted = -



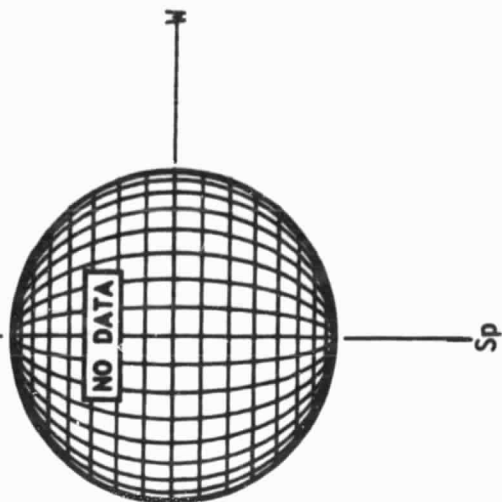
SACRAMENTO PEAK H-ALPHA



HOLLOMAN SUNSPOTS



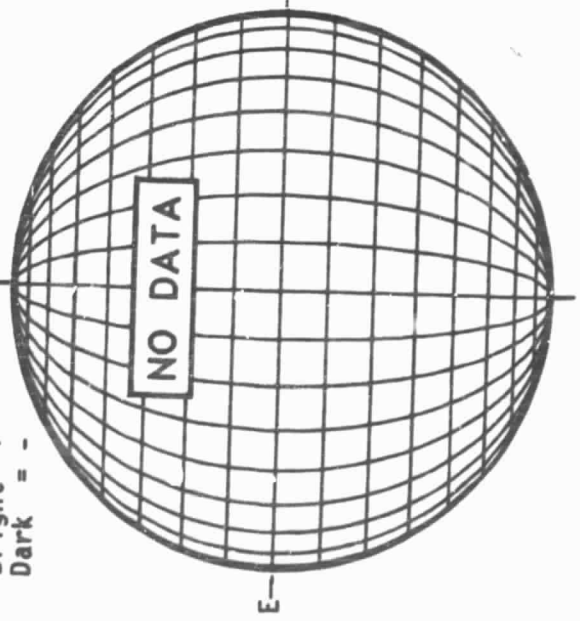
SACRAMENTO PEAK CORONA (1.15 R_{sun})



O C T O B E R 08, 1985 (P= 26.21, B₀ = 6.26, L₀ = 214.02)

KITT PEAK MAGNETOGRAM

Bright = +
Dark = -



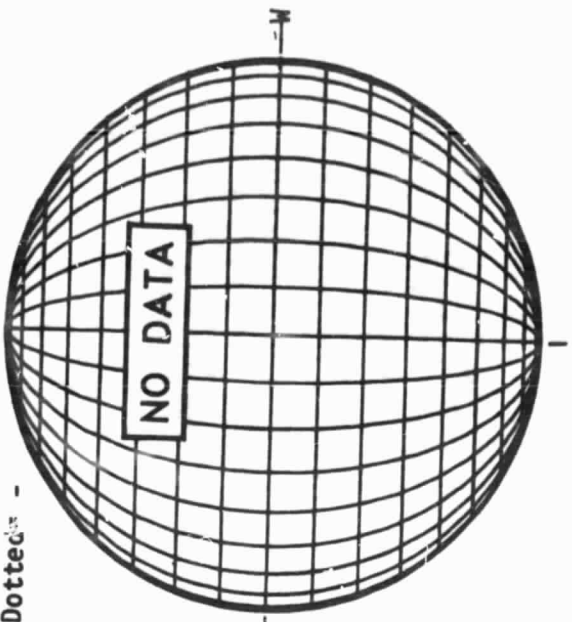
STANFORD MAGNETOGRAM

Solid = +
Dashed = -

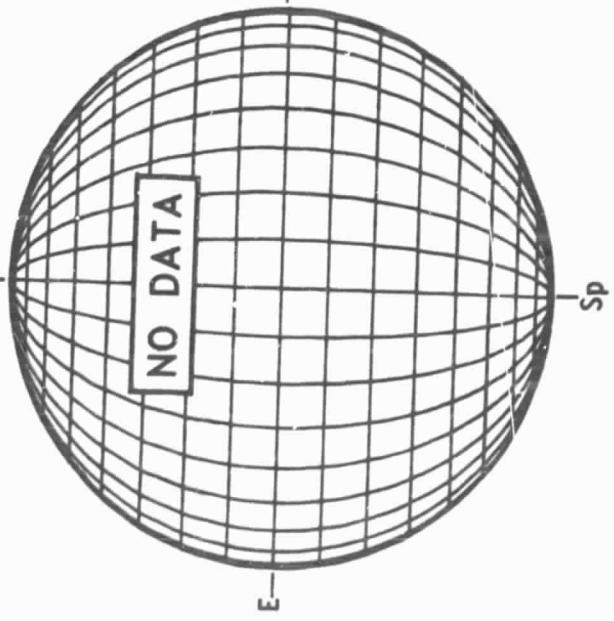


MT. WILSON MAGNETOGRAM

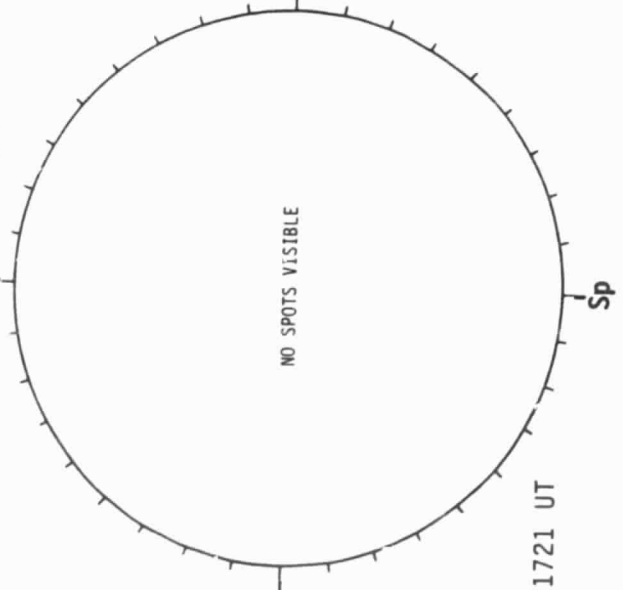
Solid = +
Dotted = -



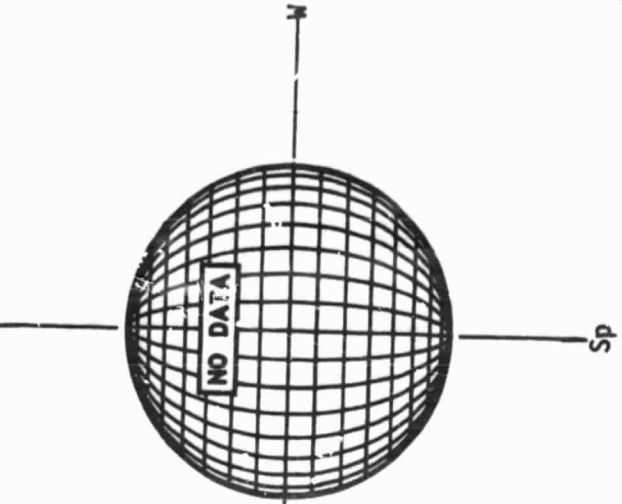
SACRAMENTO PEAK H-ALPHA



HOLLOMAN SUNSPOTS



SACRAMENTO PEAK CORONA (1.15 Radii)

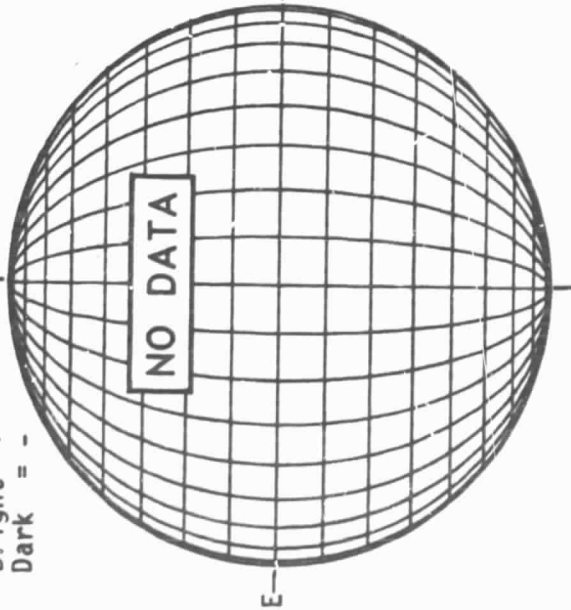


OCTOBER 09, 1985 (P= 26.22, $B_0 = 6.20$, $L_0 = 200.83$)

KITT PEAK MAGNETOGRAM

Bright= +
Dark = -

Np



STANFORD MAGNETOGRAM

Solid = +
Dashed = -

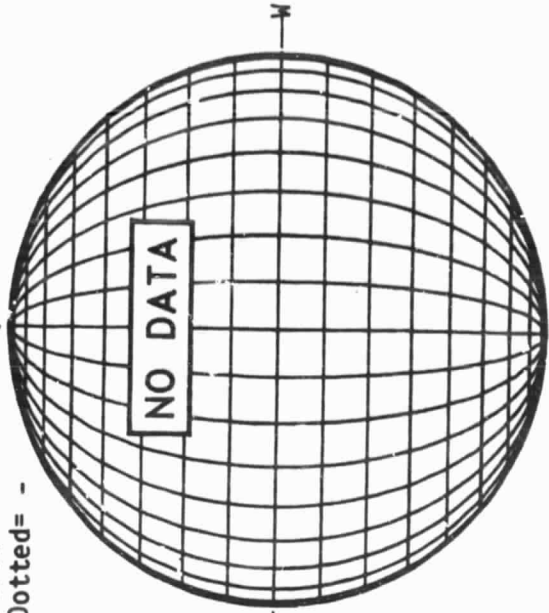
Np



MT. WILSON MAGNETOGRAM

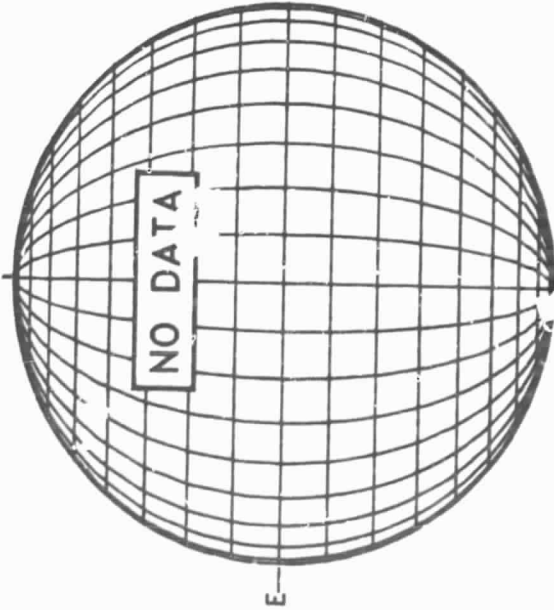
Solid = +
Dotted = -

Np



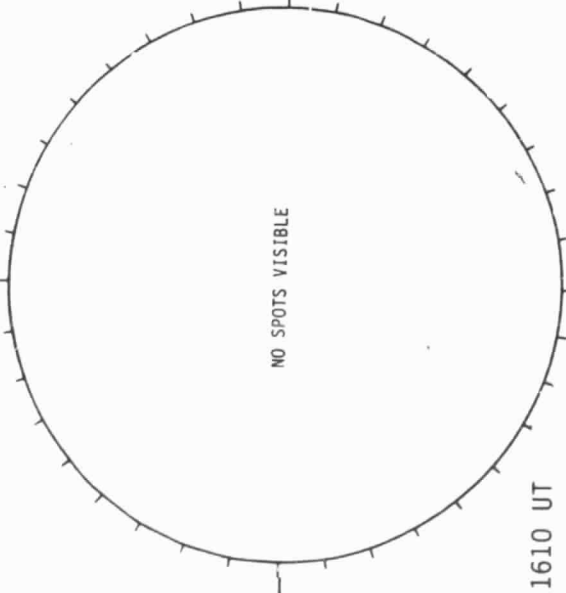
SACRAMENTO PEAK H-ALPHA

NO DATA



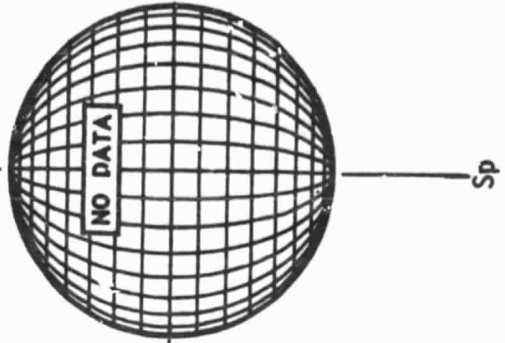
HOLLOMAN SUNSPOTS

NO SPOTS VISIBLE



SACRAMENTO PEAK CORONA (1.15 Radii)

NO DATA

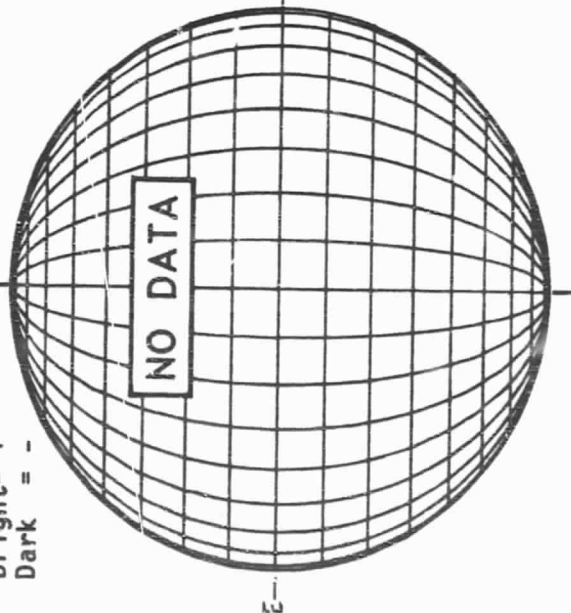


OCTOBER 10, 1985 (P= 26.23, $B_0 = 6.14$, $L_0 = 187.64$)

KITT PEAK MAGNETOGRAM

Bright = +
Dark = -

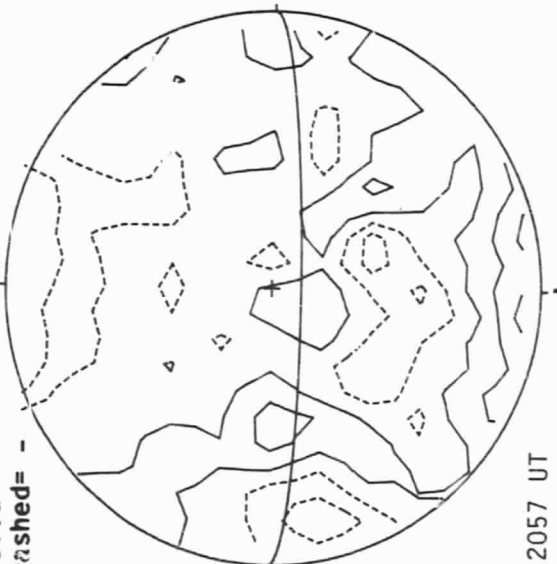
Np



STANFORD MAGNETOGRAM

Solid = +
Dashed = -

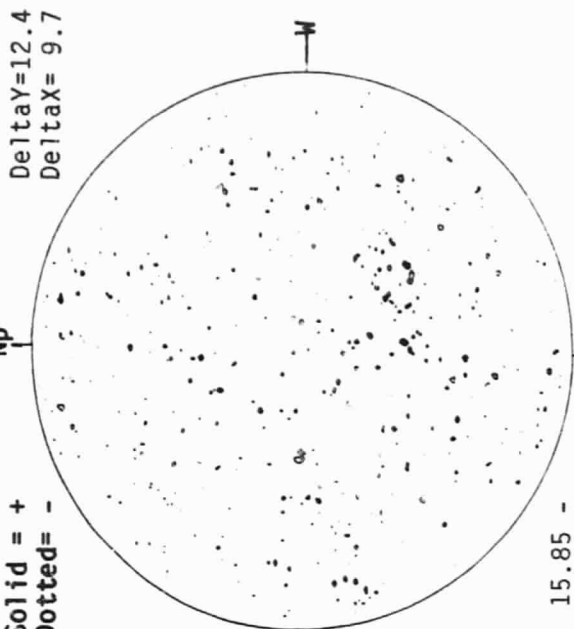
Np



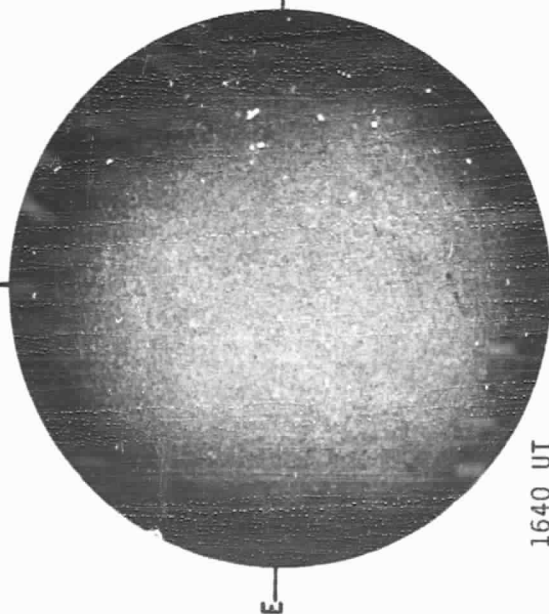
MT. WILSON MAGNETOGRAM

Solid = +
Dotted = -

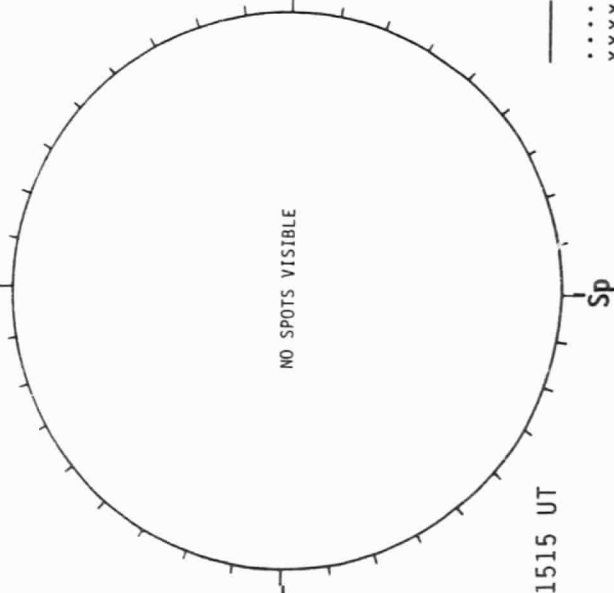
Np



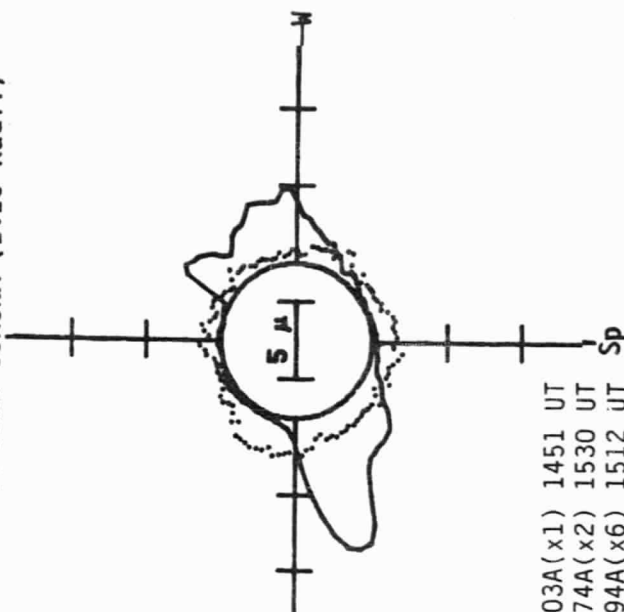
SACRAMENTO PEAK H-ALPHA



BOULDER SUNSPOTS



SACRAMENTO PEAK CORONA (1.15 Radii)

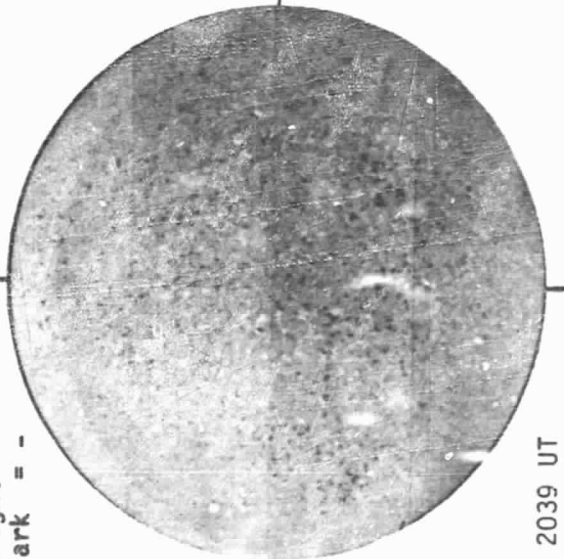


— 5303A(x1) 1451 UT
.... 6374A(x2) 1530 UT
xxxx 5694A(x6) 1512 UT
No 5694A Activity Today

OCTOBER 11, 1985 (P= 26.23, B₀ = 6.07, L₀ = 174.44)

KITT PEAK MAGNETOGRAM

Bright= +
Dark = -



2039 UT

STANFORD MAGNETOGRAM

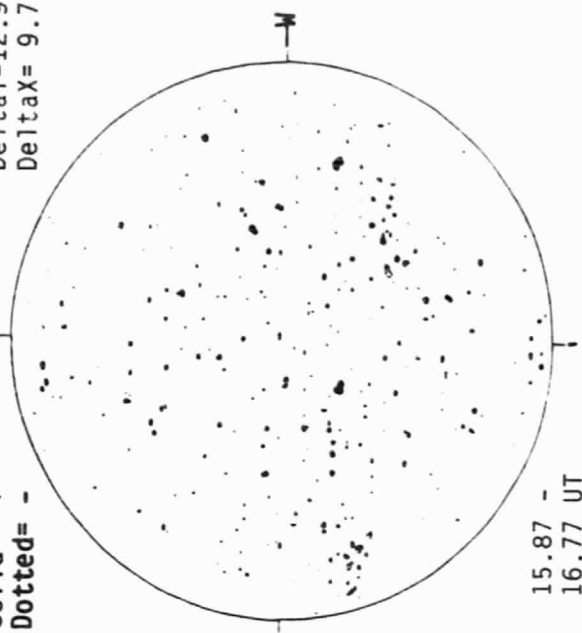
Solid = +
Dashed = -



2131 UT

MT. WILSON MAGNETOGRAM

Solid = +
Dotted = -

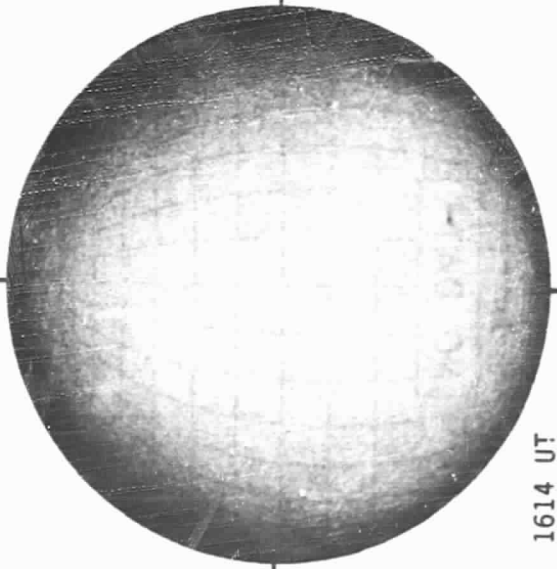


15.87 -
16.77 UT

Delta Y = 12.9
Delta X = 9.7

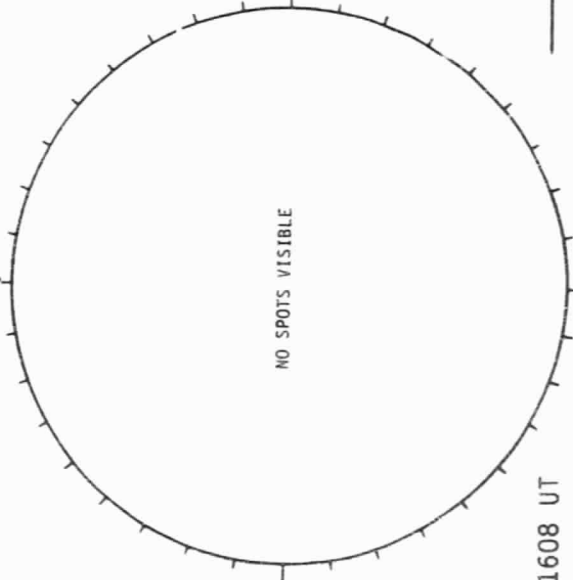
38
Oct 85

SACRAMENTO PEAK H-ALPHA



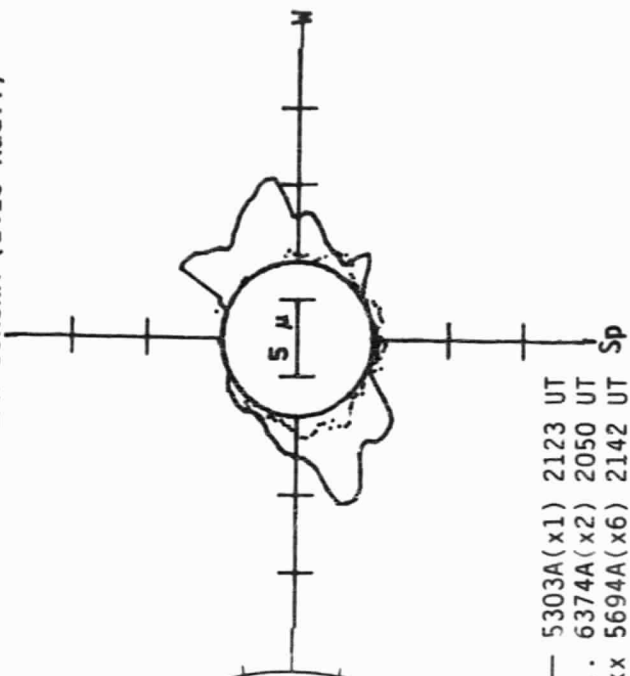
1614 UT

HOLLOMAN SUNSPOTS



1608 UT

SACRAMENTO PEAK CORONA (1.15 Radii)



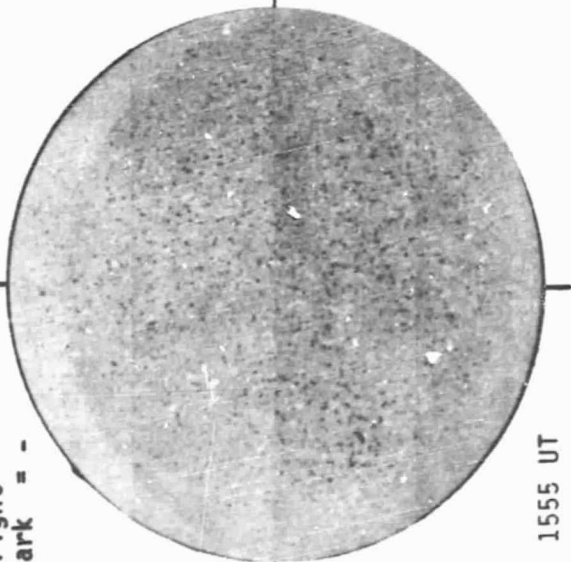
— 5303A(x1) 2123 UT
.... 6374A(x2) 2050 UT
xxxx 5694A(x6) 2142 UT
No 5694A Activity Today

OCTOBER 12, 1985 (P= 26.22, B₀ = 6.01, L₀ = 161.25)

KITT PEAK MAGNETOGRAM

Np

Bright = +
Dark = -

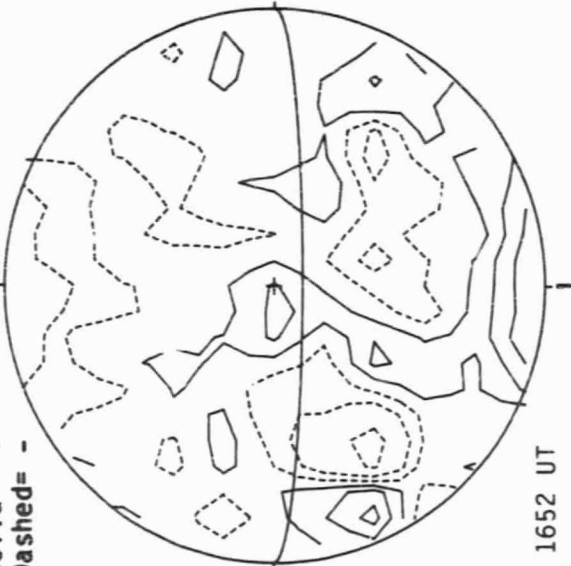


1555 UT

STANFORD MAGNETOGRAM

Np

Solid = +
Dashed = -

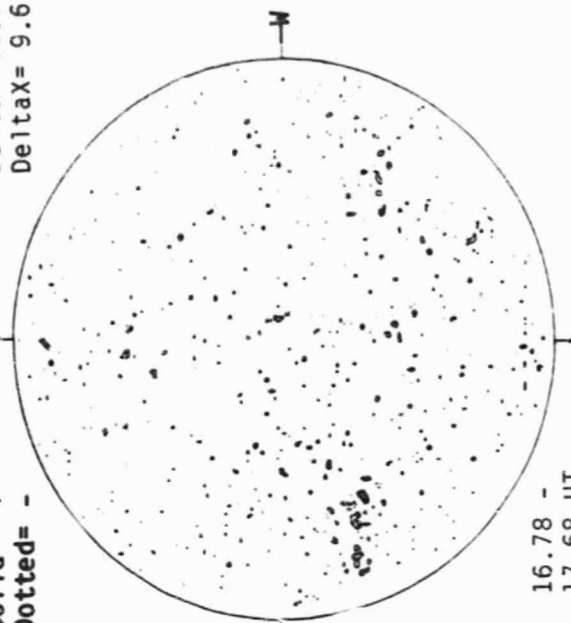


1652 UT

MT. WILSON MAGNETOGRAM

Np

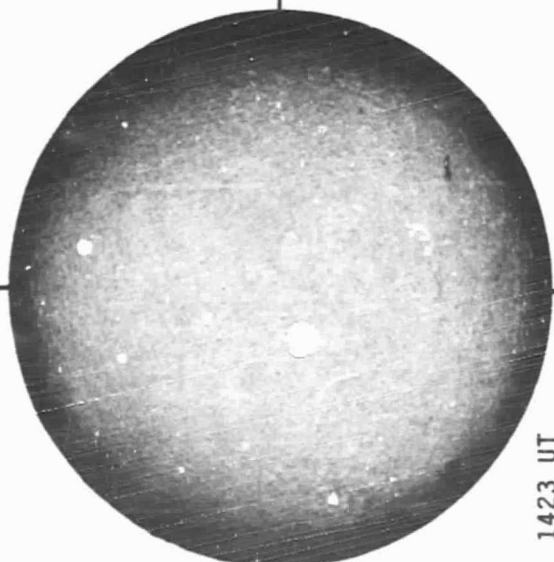
Solid = +
Dotted = -



16.78 -
17.68 UT

DeltaY=12.9
DeltaX= 9.6

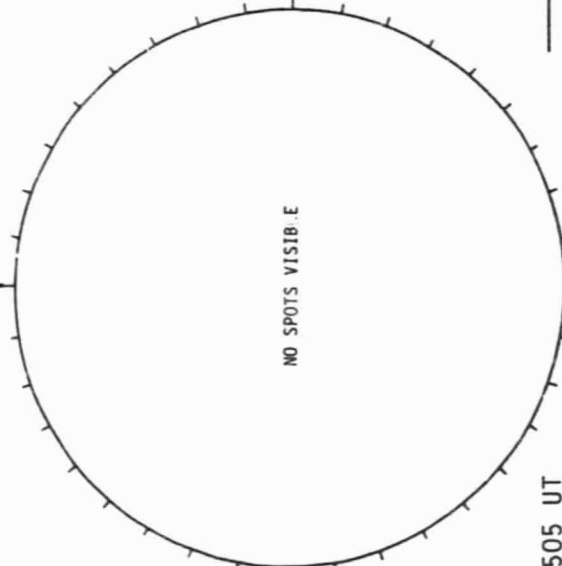
SACRAMENTO PEAK H-ALPHA



1423 UT

Sp

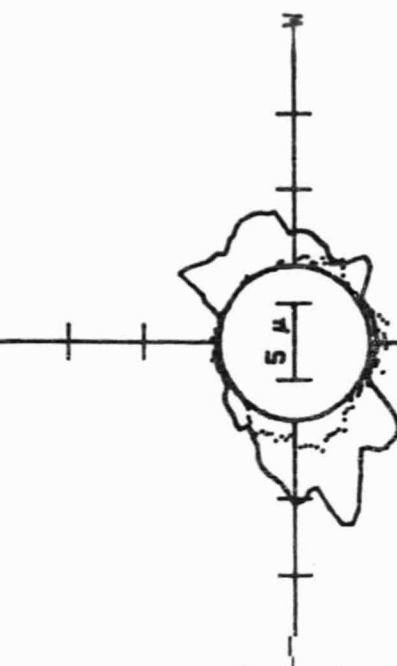
BOULDER SUNSPOTS



1505 UT

Sp

SACRAMENTO PEAK CORONA (1.15 Rad11)



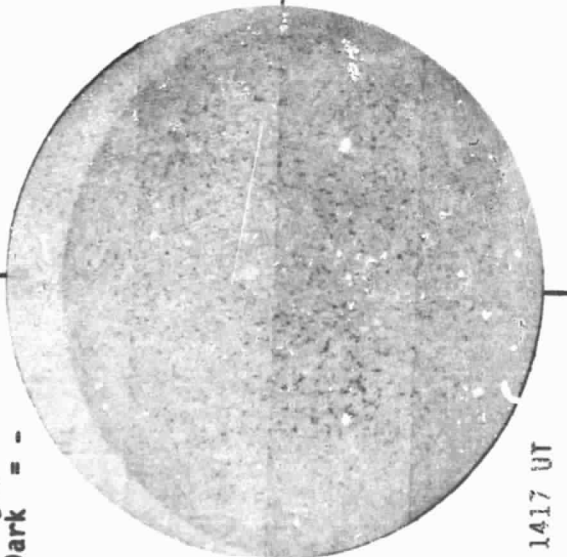
— 5303A(x1) 1451 UT
.... 6374A(x2) 1518 UT
xxxx 5694A(x6) 1608 UT
No 5694A Activity Today

OCTOBER 13, 1985 (P= 26.20, B₀ = 5.94, L₀ = 148.06)

KITT PEAK MAGNETOGRAM

Bright = +
Dark = -

Np

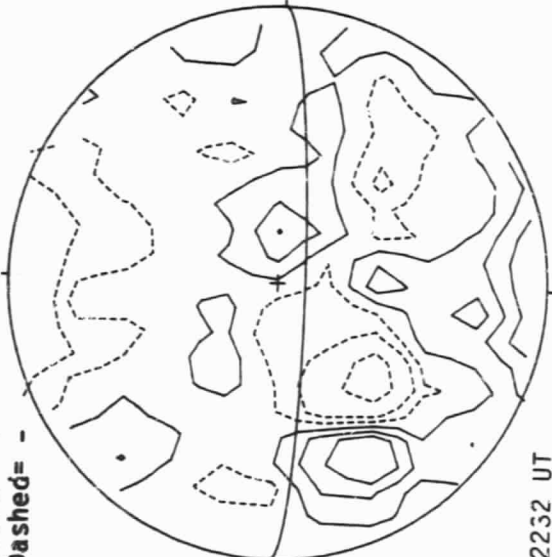


1417 UT

STANFORD MAGNETOGRAM

Solid = +
Dashed = -

Np

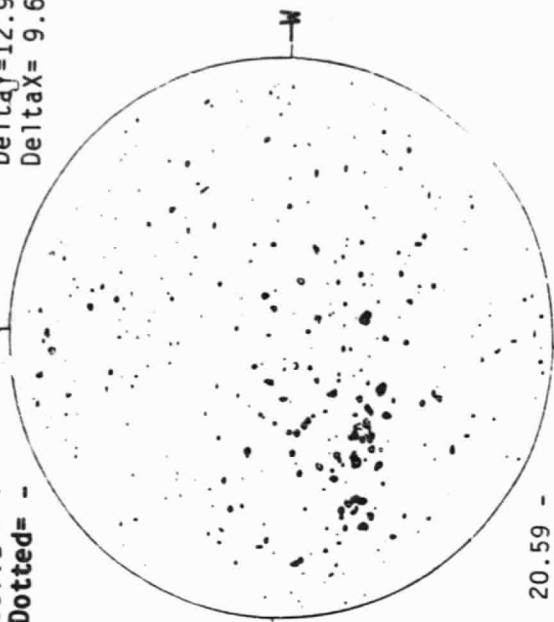


2232 UT

MT. WILSON MAGNETOGRAM

Solid = +
Dotted = -

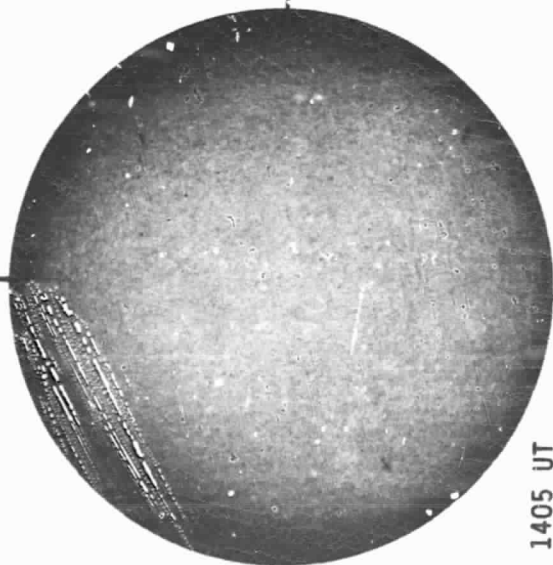
Np



20.59 -
21.50 UT

Oct 85
Delta Y = 12.9
Delta X = 9.6

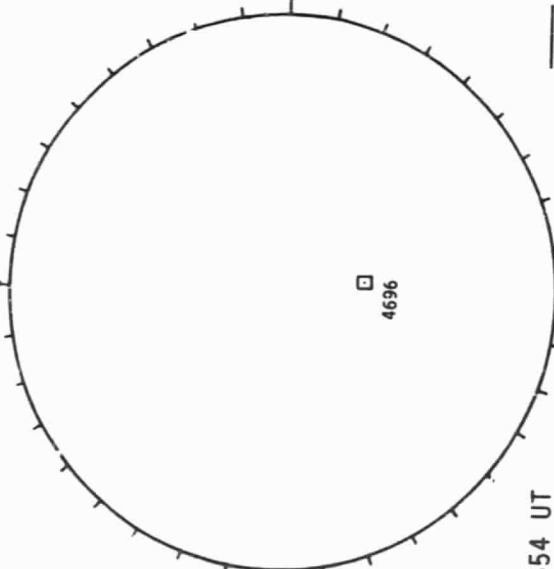
SACRAMENTO PEAK H-ALPHA



1405 UT

Sp

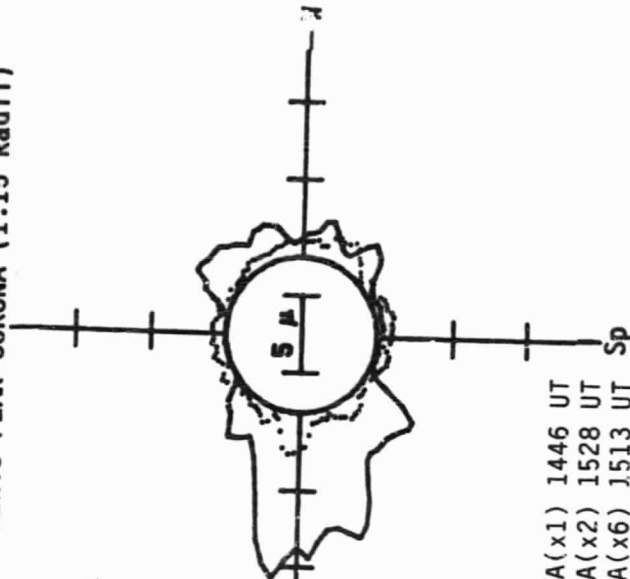
HOLLOMAN SUNSPOTS



1654 UT

Sp

SACRAMENTO PEAK CORONA (1.15 Radii)

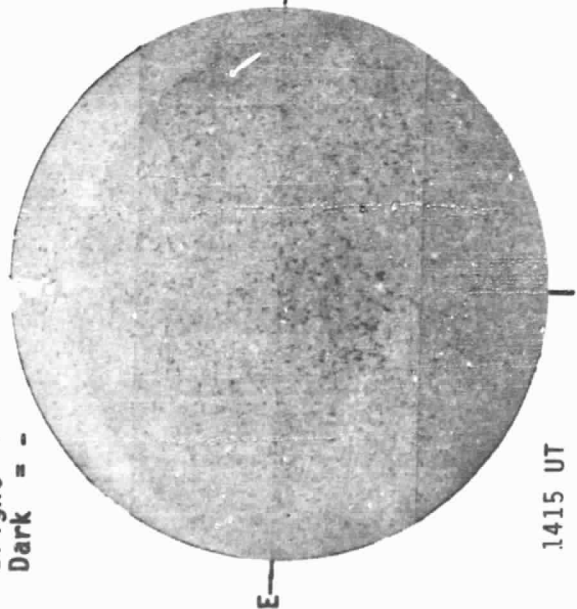


— 5303A(x1) 1446 UT
.... 6374A(x2) 1528 UT
xxxx 5694A(x6) 1513 UT
No 5694A Activity Today

OCTOBER 14, 1985 (P= 26.17, B₀ = 5.87, L₀ = 134.87)

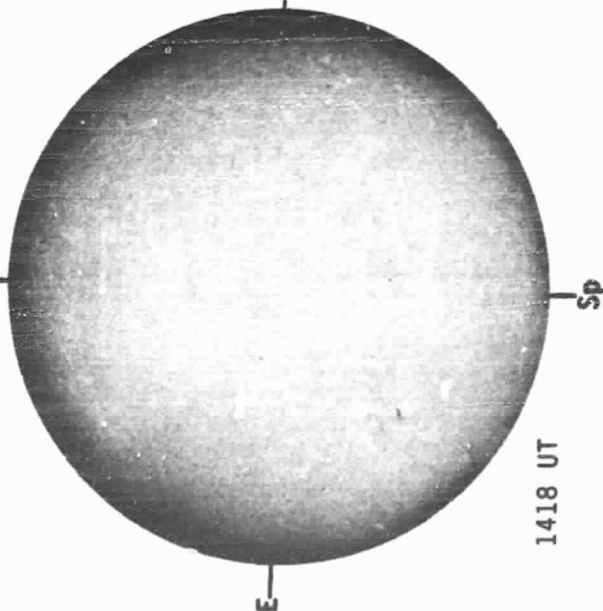
KITT PEAK MAGNETOGRAM

Bright = +
Dark = -



1415 UT

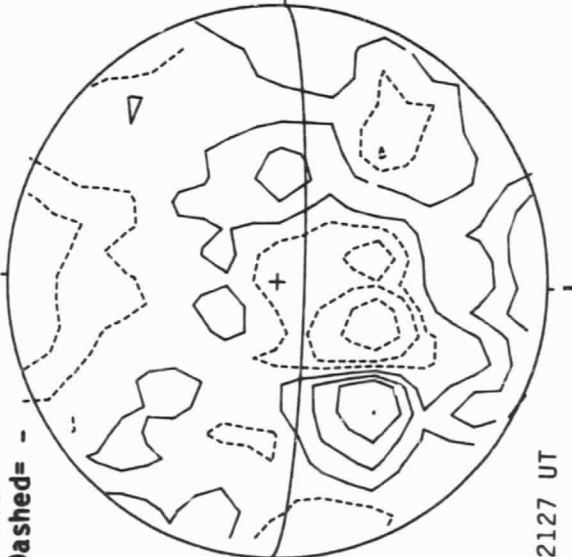
SACRAMENTO PEAK H-ALPHA



1418 UT

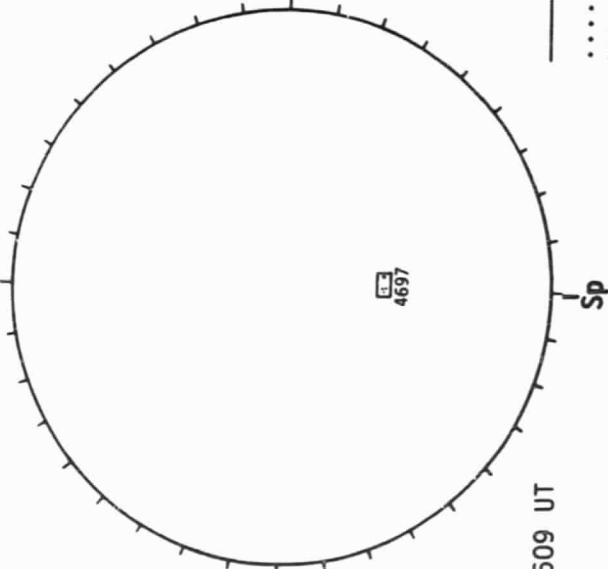
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



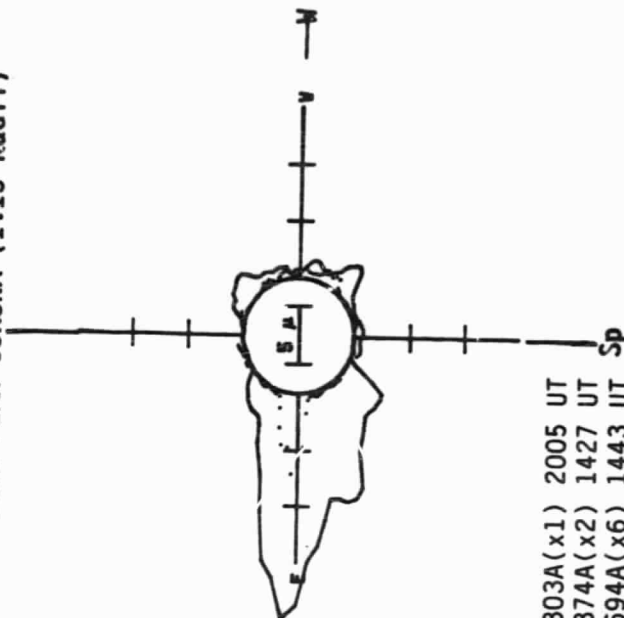
2127 UT

HOLLOMAN SUNSPOTS



1609 UT

SACRAMENTO PEAK CORONA (1.15 Rad11)

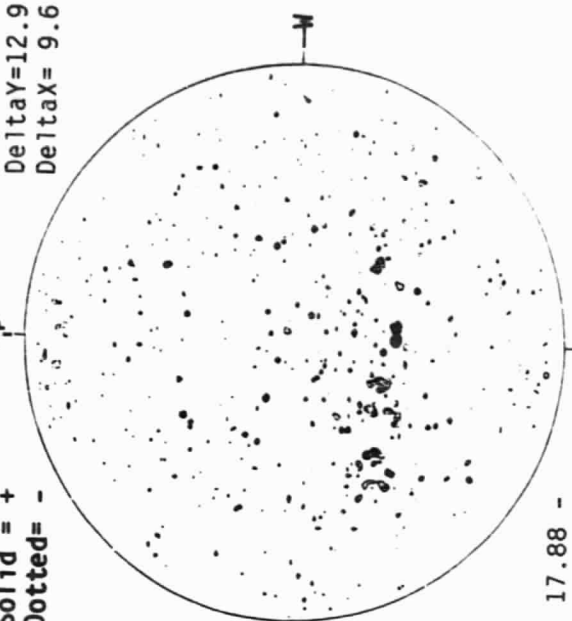


17.88 -
18.78 UT

5303A(x1) 2005 UT
6374A(x2) 1427 UT
5694A(x6) 1443 UT
No 5694A Activity Today

MT. WILSON MAGNETOGRAM

Solid = +
Dotted = -



17.88 -
18.78 UT

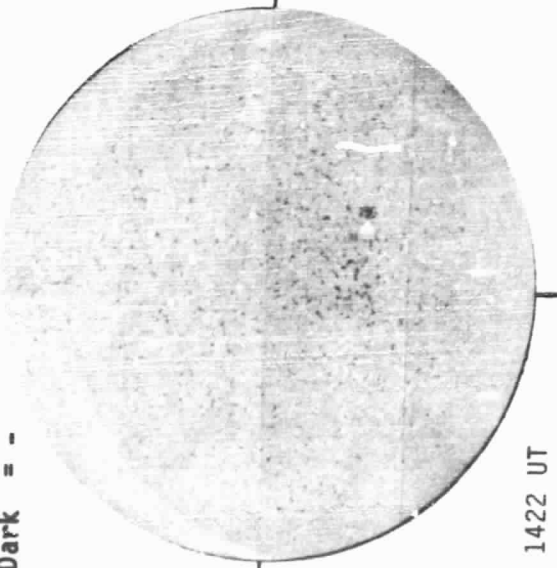
Delta Y = 12.9
Delta X = 9.6

OCTOBER 15, 1985 (P= 26.14, B₀ = 5.80, L₀ = 121.68)

KITT PEAK MAGNETOGRAM

Bright = +
Dark = -

Np

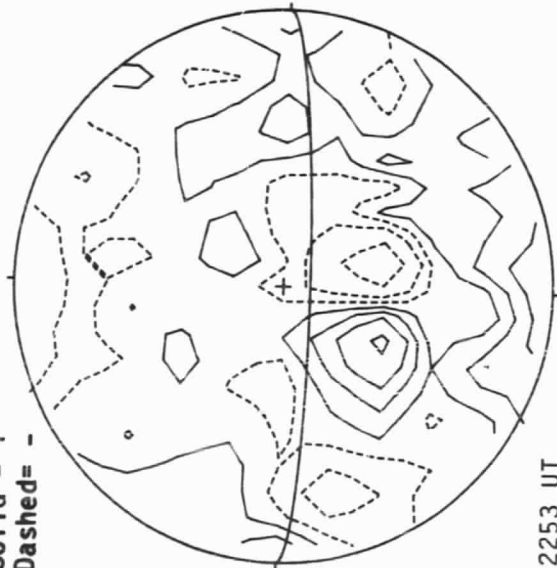


1422 UT

STANFORD MAGNETOGRAM

Solid = +
Dashed = -

Np

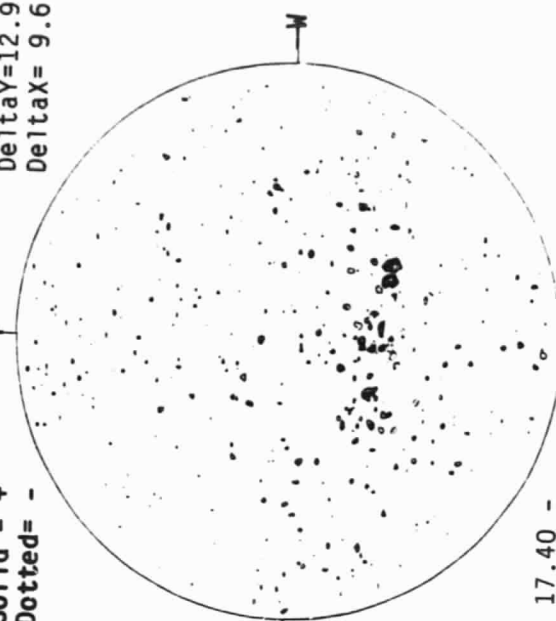


2253 UT

MT. WILSON MAGNETOGRAM

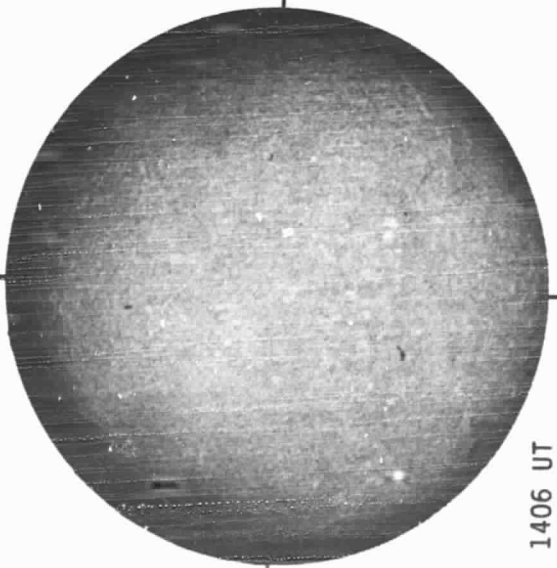
Solid = +
Dotted = -

Np



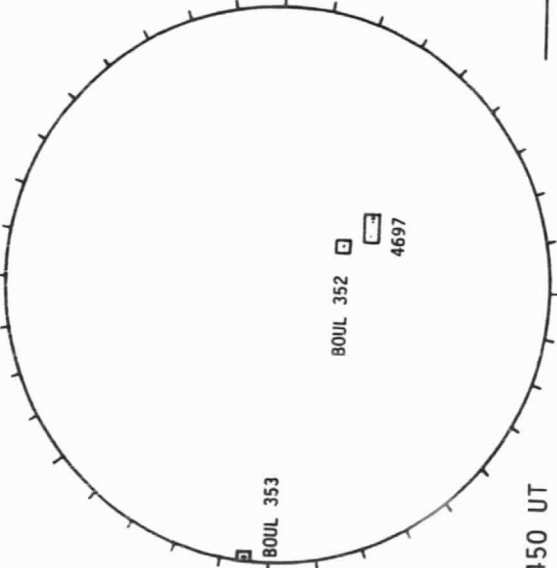
17.40 -
18.31 UT

SACRAMENTO PEAK H-ALPHA



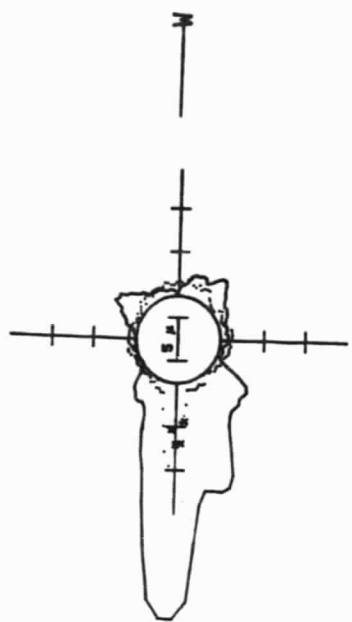
1406 UT

BOULDER SUNSPOTS



1450 UT

SACRAMENTO PEAK CORONA (1.15 Radii)



— 5303A(x1) 1616 UT
.... 6374A(x2) 1411 UT
xxxx 5694A(x6) 1432 UT

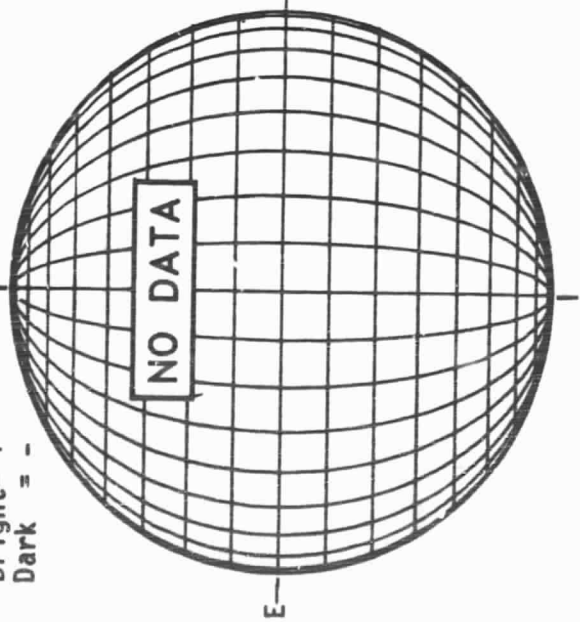
42
Oct 85
Delta Y = 12.9
Delta X = 9.6

OCTOBER 16, 1985 (P= 26.10, B₀ = 5.73, L₀ = 108.49)

KITT PEAK MAGNETOGRAM

Bright= +
Dark = -

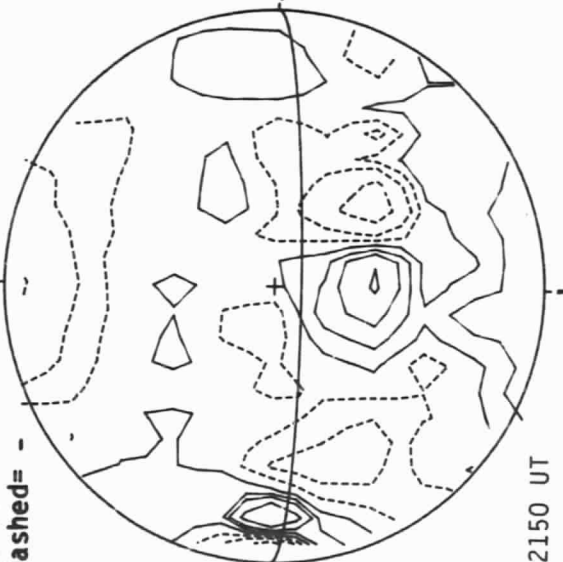
Np



STANFORD MAGNETOGRAM

Solid = +
Dashed = -

Np

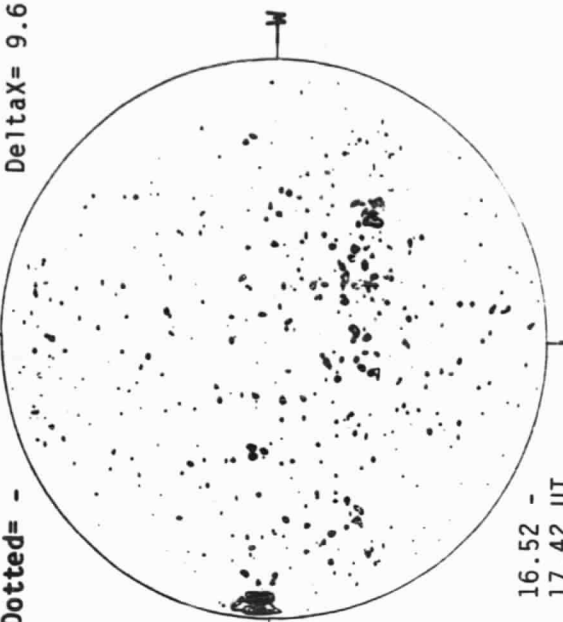


MT. WILSON MAGNETOGRAM

Np

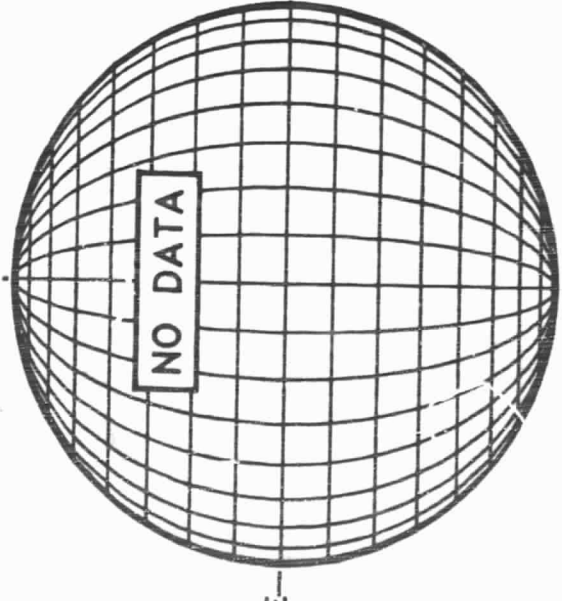
Solid = +
Dotted = -

DeltaY=12.9
DeltaX= 9.6

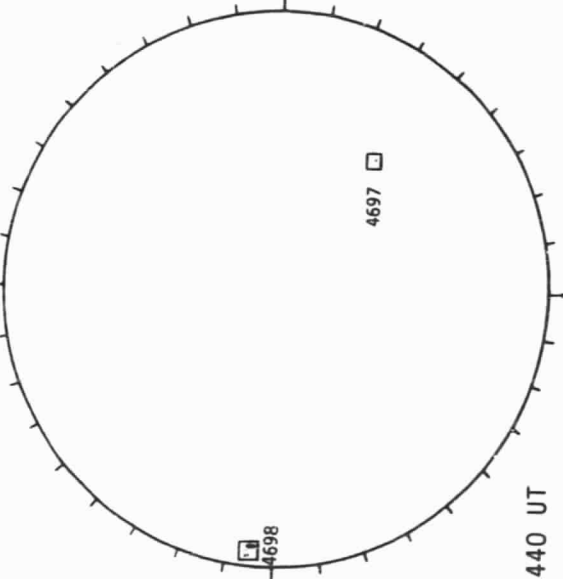


SACRAMENTO PEAK H-ALPHA

NO DATA



BOULDER SUNSPOTS



SACRAMENTO PEAK CORONA (1.15 Rad11)

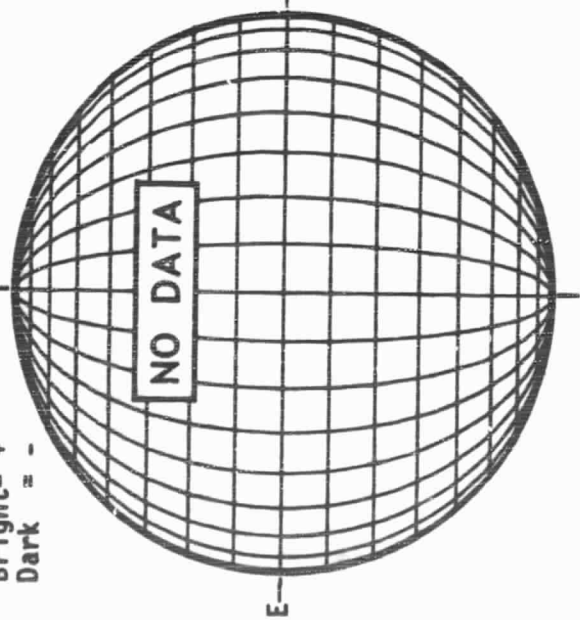
NO DATA



OCTOBER 17, 1985 (P= 26.06, $B_0 = 5.65$, $L_0 = 95.30$)

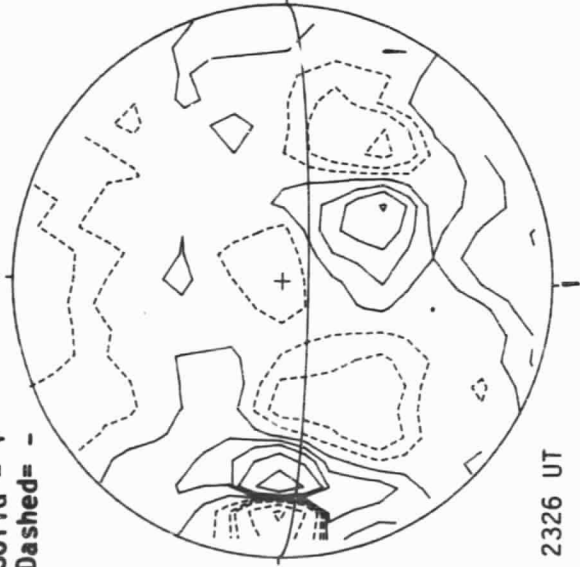
KITT PEAK MAGNETOGRAM

Bright = +
Dark = -



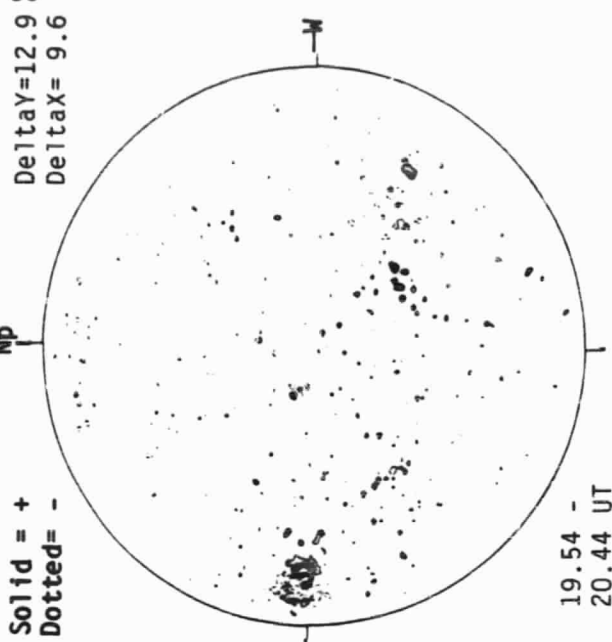
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



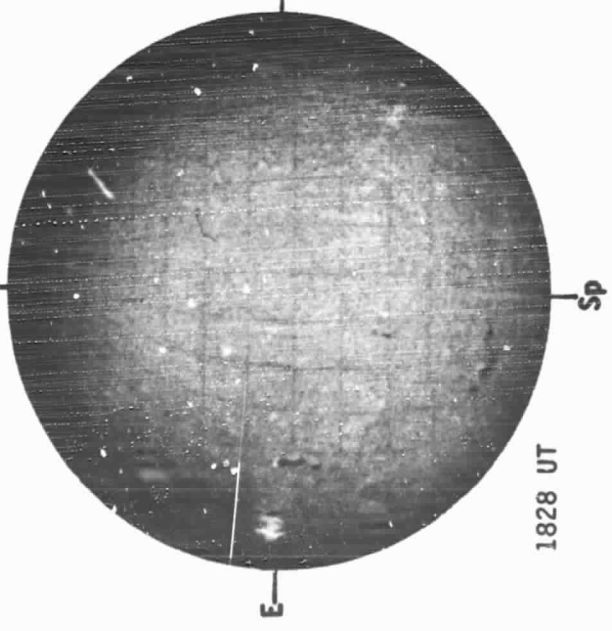
MT. WILSON MAGNETOGRAM

Solid = +
Dotted = -



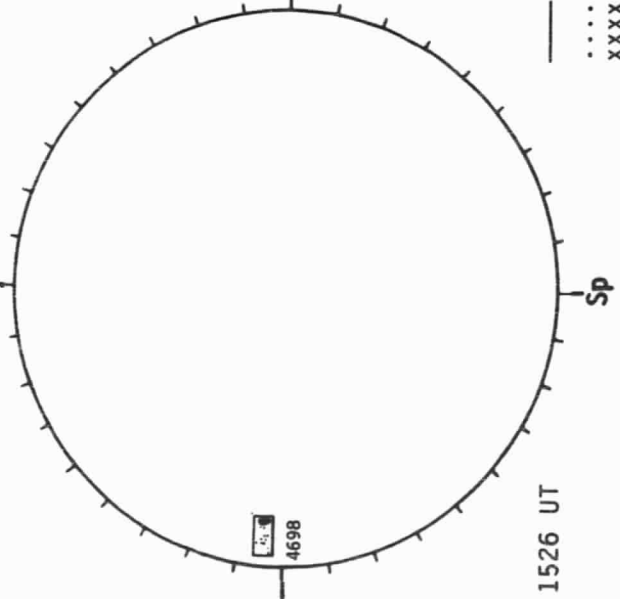
Delta Y = 12.9
Delta X = 9.6

SACRAMENTO PEAK H-ALPHA



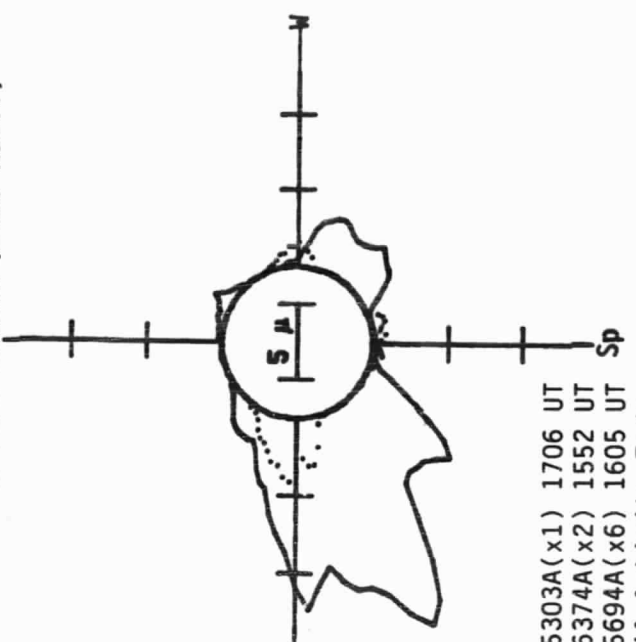
1828 UT

BOULDER SUNSPOTS



1526 UT

SACRAMENTO PEAK CORONA (1.15 Radii)



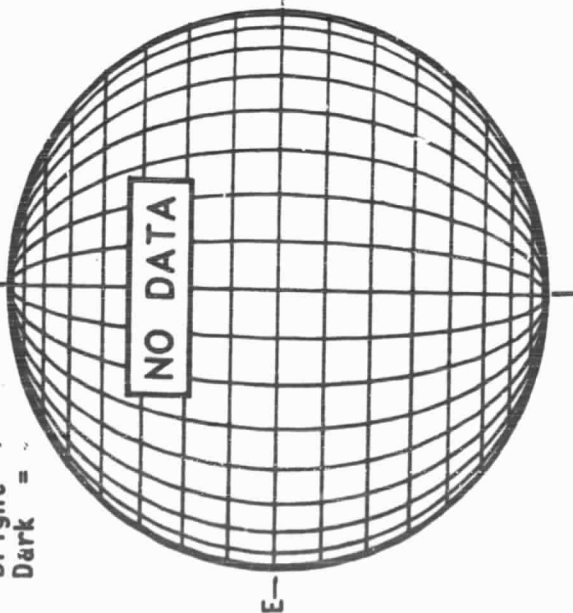
5303A(x1) 1706 UT
6374A(x2) 1552 UT
xxxx 5694A(x6) 1605 UT
No 5694A Activity Today

OCTOBER 18, 1985 (P= 26.00, B₀ = 5.57, L₀ = 82.11)

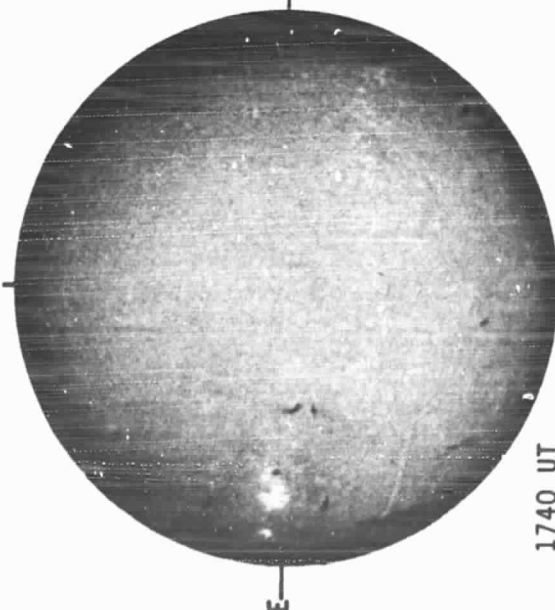
KITT PEAK MAGNETOGRAM

Np

Bright= +
Dark = -



SACRAMENTO PEAK H-ALPHA

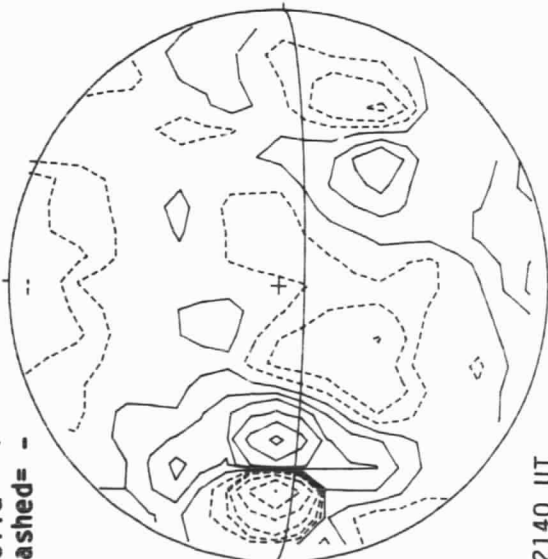


1740 UT

STANFORD MAGNETOGRAM

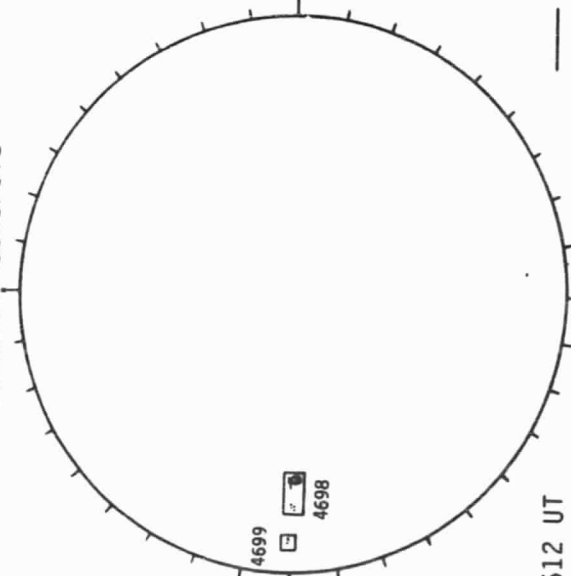
Np

Solid = +
Dashed = -



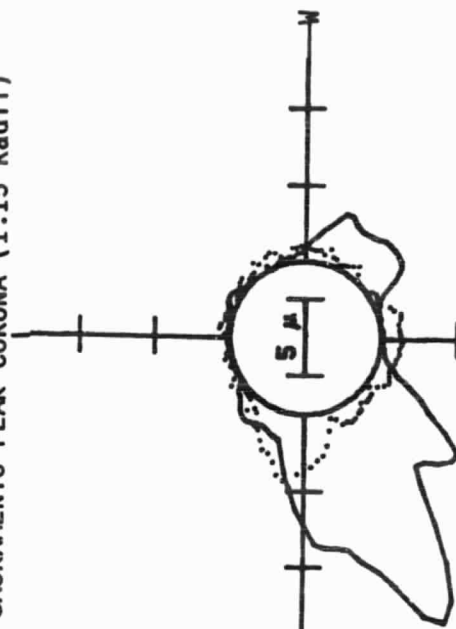
2140 UT

HOLLOMAN SUNSPOTS



1512 UT

SACRAMENTO PEAK CORONA (1.15 Radii)



Sp

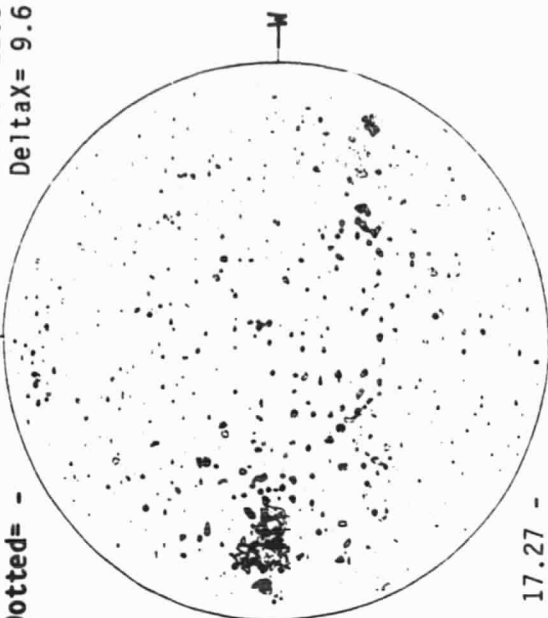
— 5303A(x1) 1533 UT
.... 6374A(x2) 1450 UT
xxxx 5694A(x6) 1504 UT
No 5694A Activity Today

MT. WILSON MAGNETOGRAM

Np

Solid = +
Dotted = -

Delta Y = 12.9
Delta X = 9.6



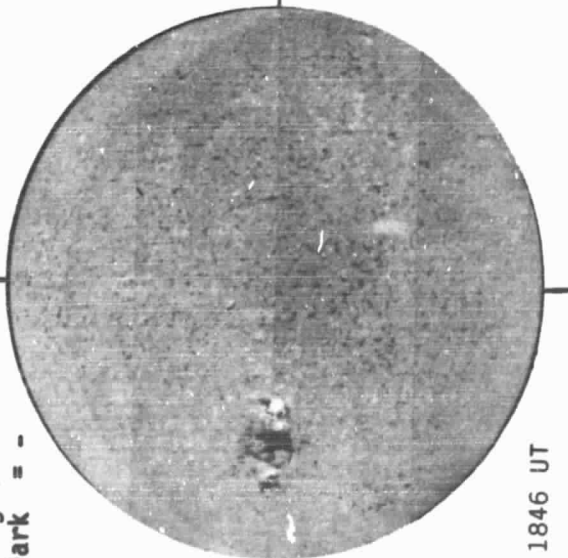
17.27 -
18.17 UT

OCTOBER 19, 1985 (P= 25.94, B₀ = 5.50, L₀ = 68.92)

KITT PEAK MAGNETOGRAM

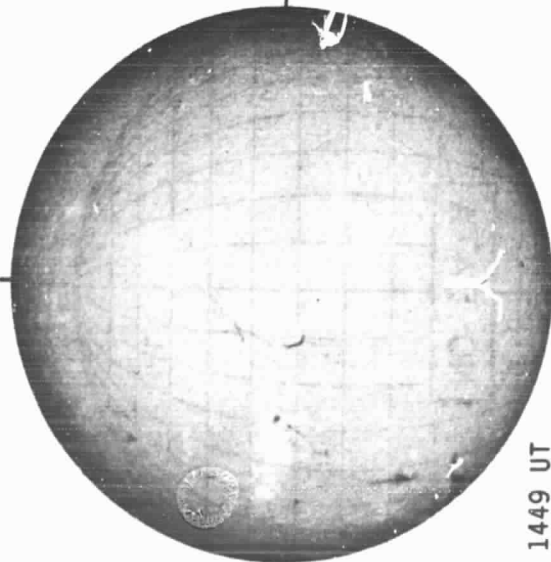
Np

Bright = +
Dark = -



1846 UT

SACRAMENTO PEAK H-ALPHA

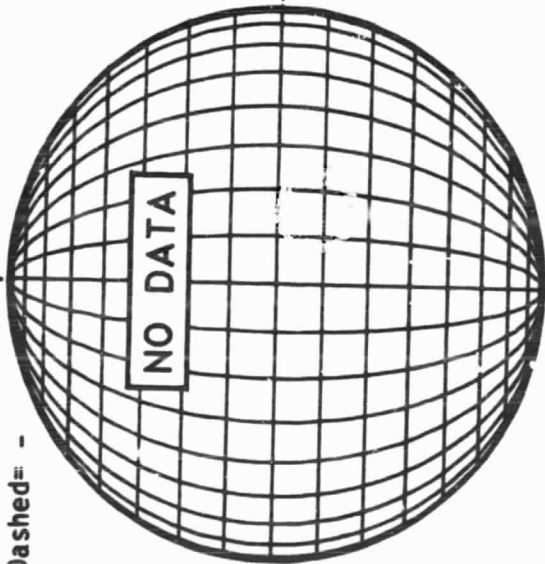


1449 UT

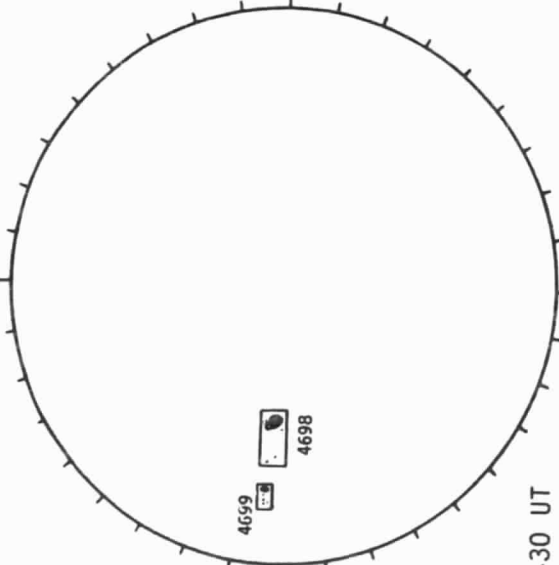
STANFORD MAGNETOGRAM

Np

Solid = +
Dashed = -



BOULDER SUNSPOTS

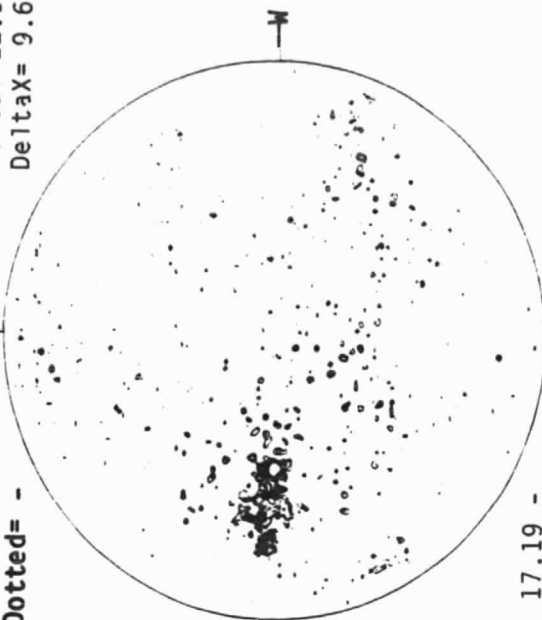


1430 UT

MT. WILSON MAGNETOGRAM

Np

Solid = +
Dotted = -



17.19 -
18.09 UT

SACRAMENTO PEAK CORONA (1.15 Radii)



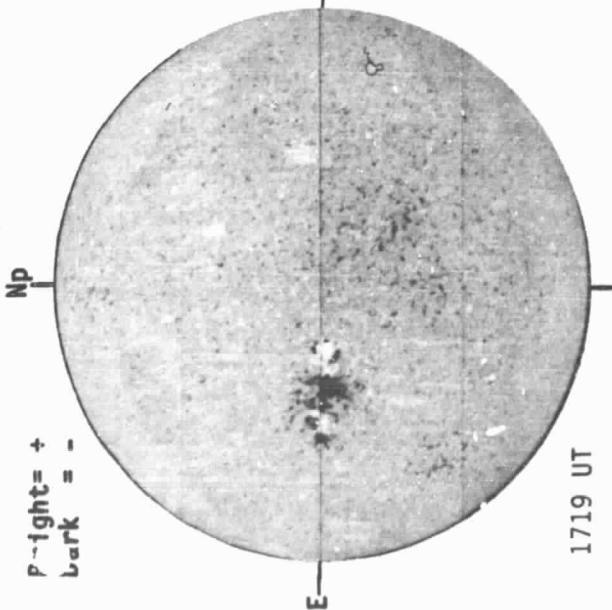
Sp

46
Oct 85
DeltaY=12.9
DeltaX= 9.6

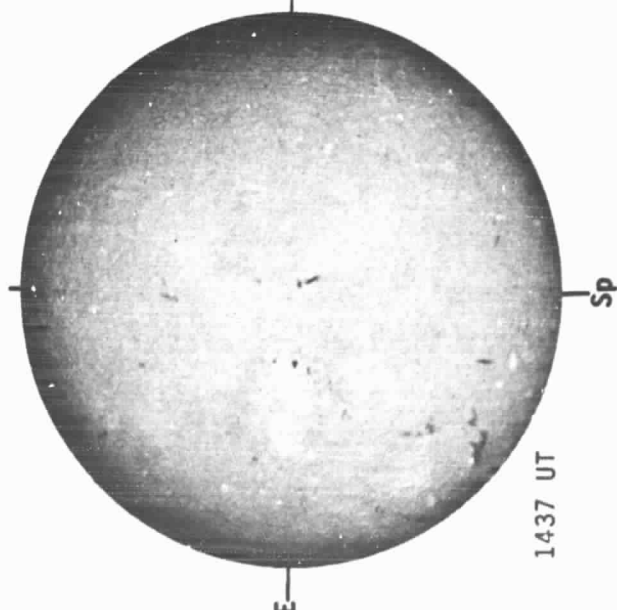
OCTOBER 20, 1985 (P= 25.87, B₀ = 5.42, L₀ = 55.73)

KITT PEAK MAGNETOGRAM

P-light = +
dark = -

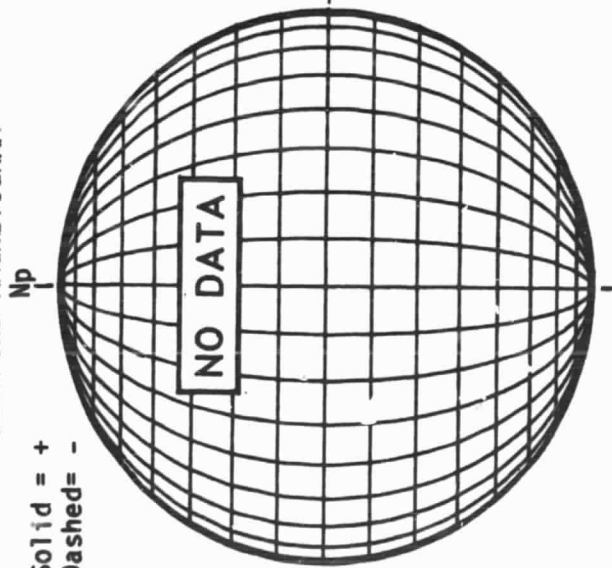


SACRAMENTO PEAK H-ALPHA

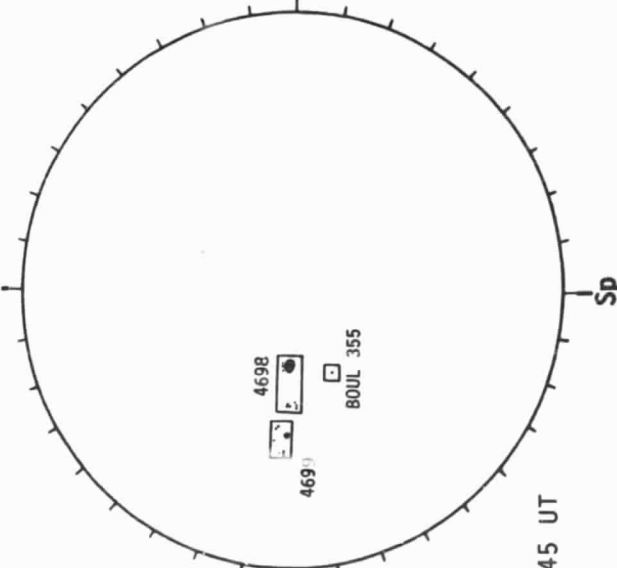


STANFORD MAGNETOGRAM

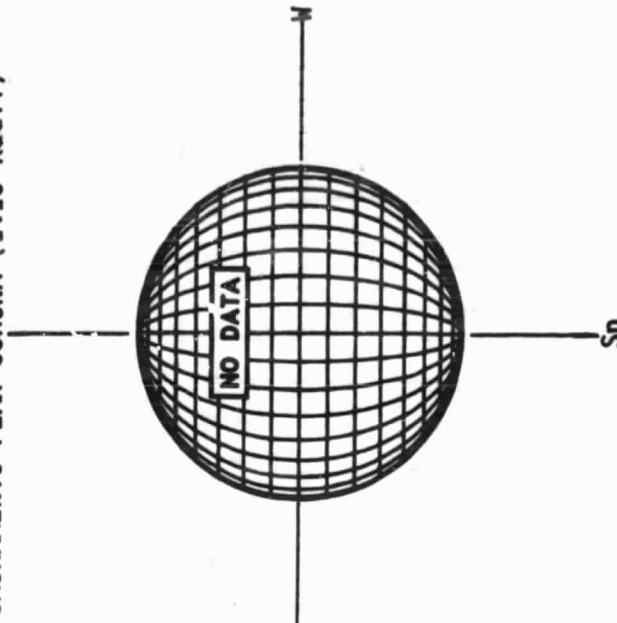
Solid = +
Dashed = -



BOULDER SUNSPOTS

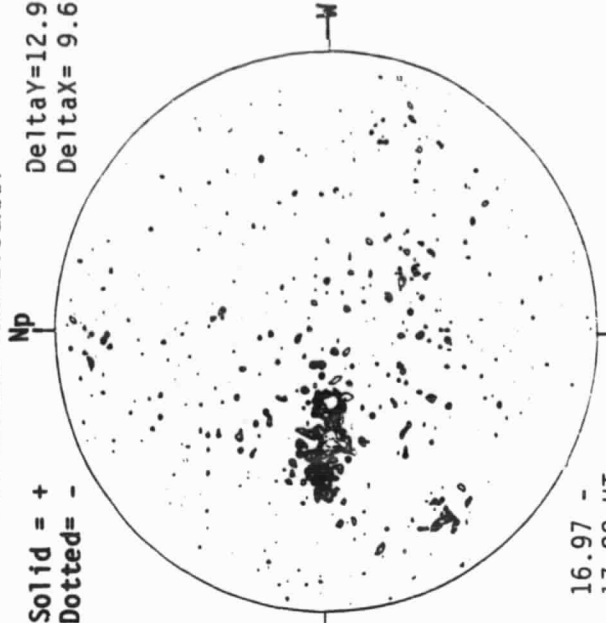


SACRAMENTO PEAK CORONA (1.15 Radii)



MT. WILSON MAGNETOGRAM

Solid = +
Dotted = -
Delta Y = 12.9
Delta X = 9.6

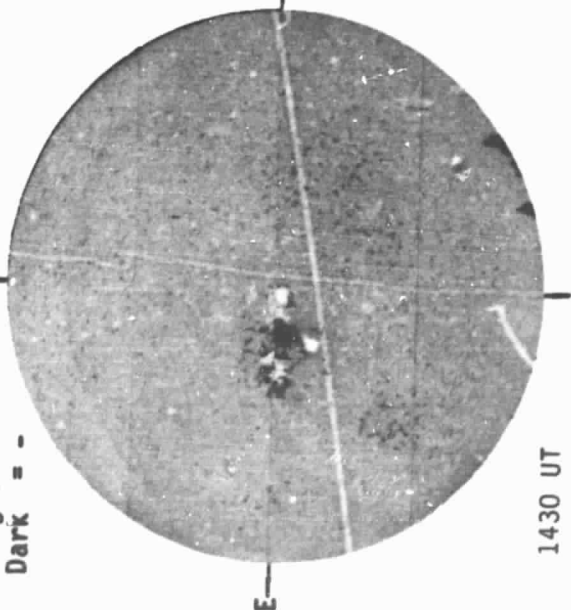


OCTOBER 21, 1985 (P= 25.79, $B_0 = 5.33$, $L_0 = 42.54$)

KITT PEAK MAGNETOGRAM

Bright= +
Dark = -

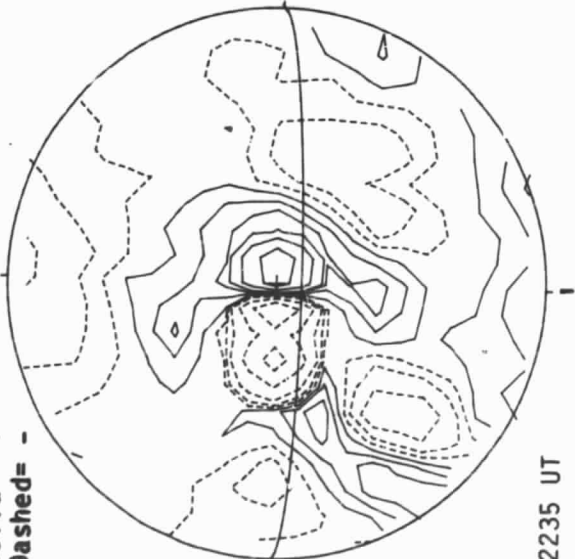
Np



STANFORD MAGNETOGRAM

Solid = +
Dashed = -

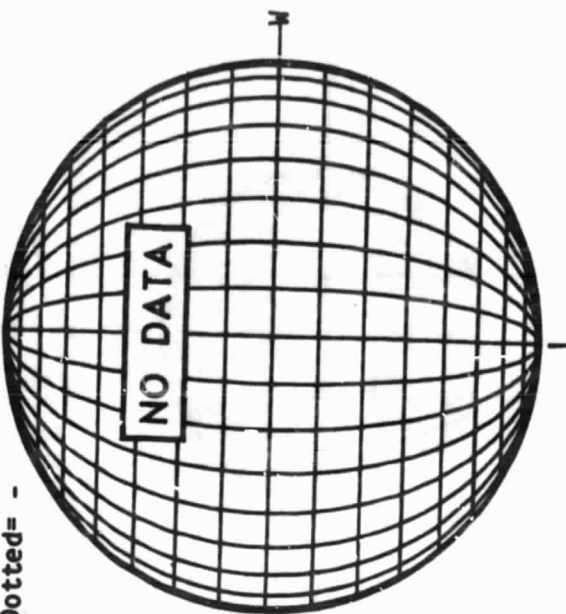
Np



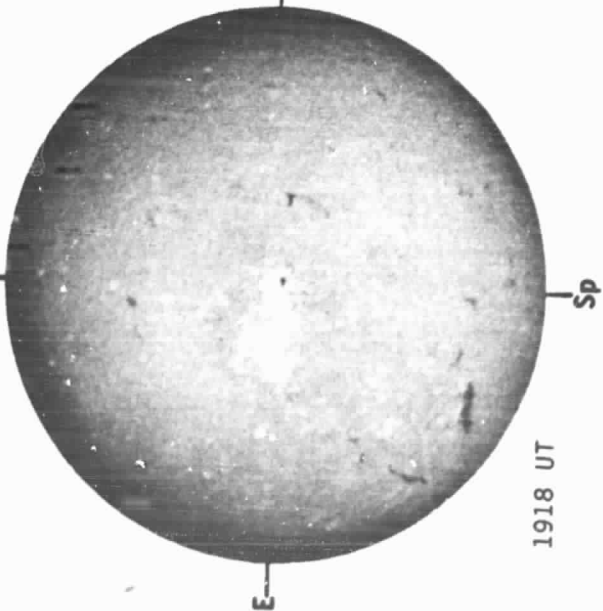
MT. WILSON MAGNETOGRAM

Solid = +
Dotted = -

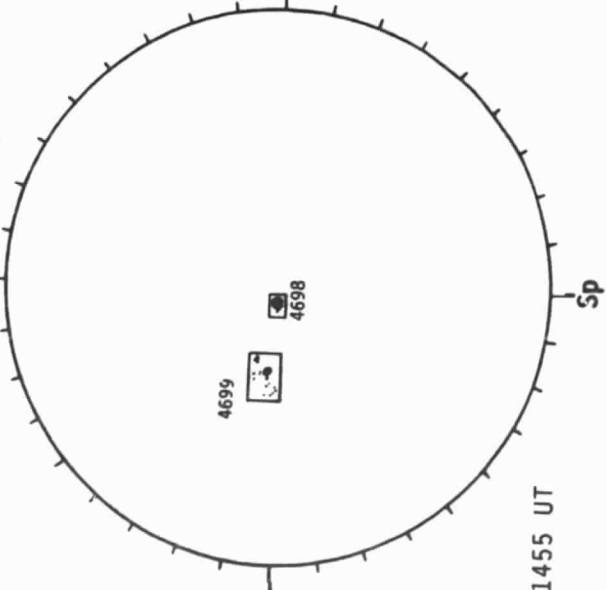
Np



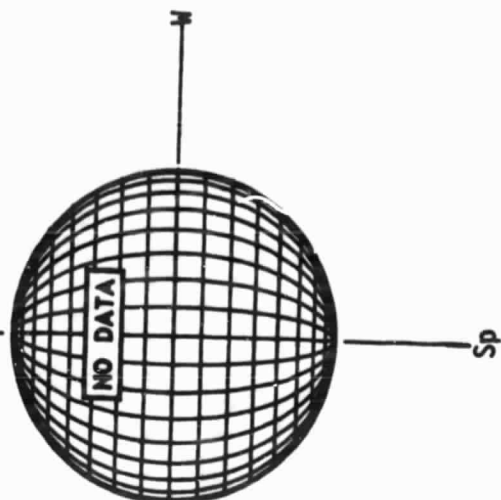
SACRAMENTO PEAK H-ALPHA



BOULDER SUNSPOTS



SACRAMENTO PEAK CORONA (1.15 Radii)

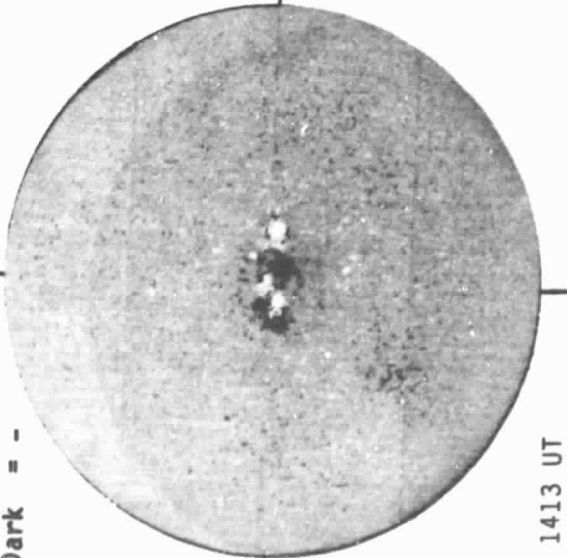


OCTOBER 22, 1985 (P= 25.71, B₀ = 5.25, L₀ = 29.35)

KITT PEAK MAGNETOGRAM

Bright= +
Dark = -

Np

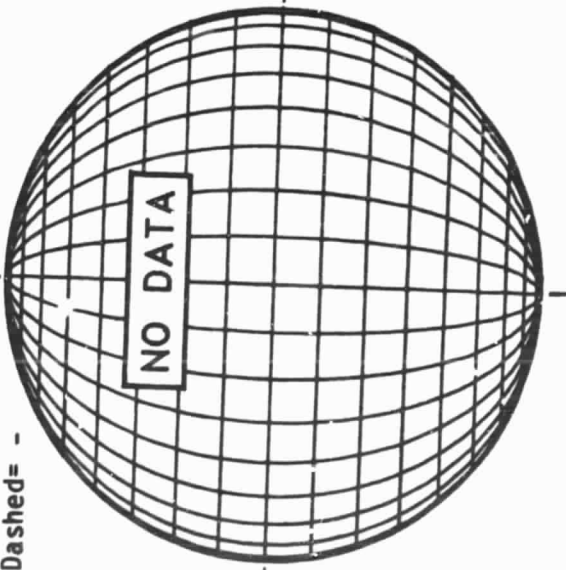


1413 UT

STANFORD MAGNETOGRAM

Solid = +
Dashed = -

Np



1445 UT

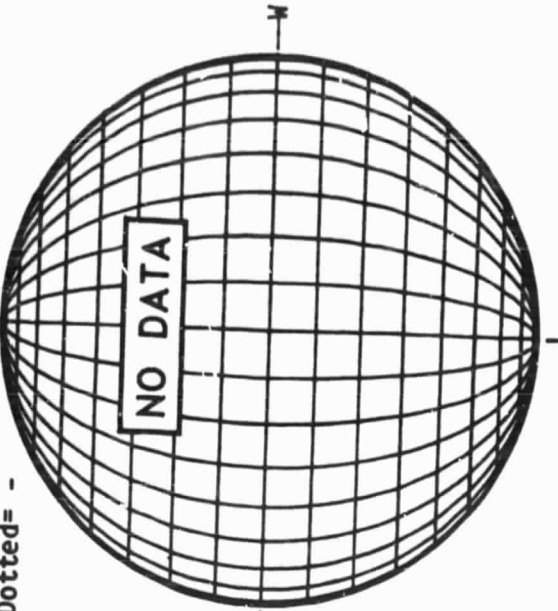
NO DATA

NO DATA

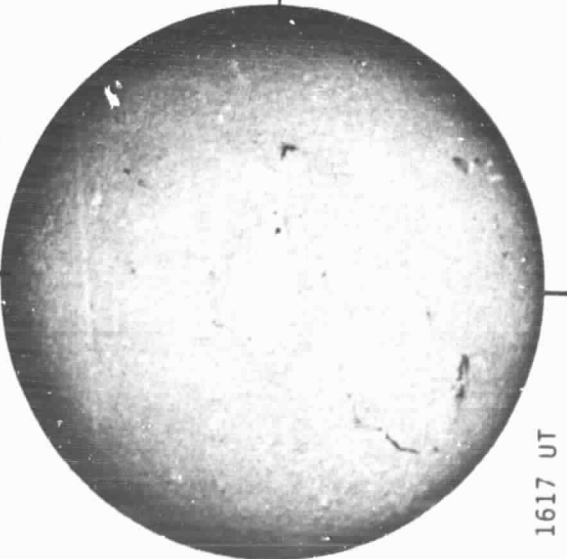
MT. WILSON MAGNETOGRAM

Solid = +
Dotted = -

Np

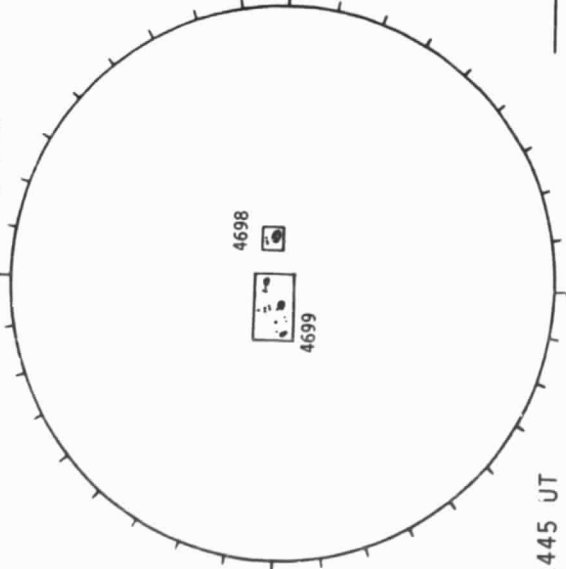


SACRAMENTO PEAK H-ALPHA

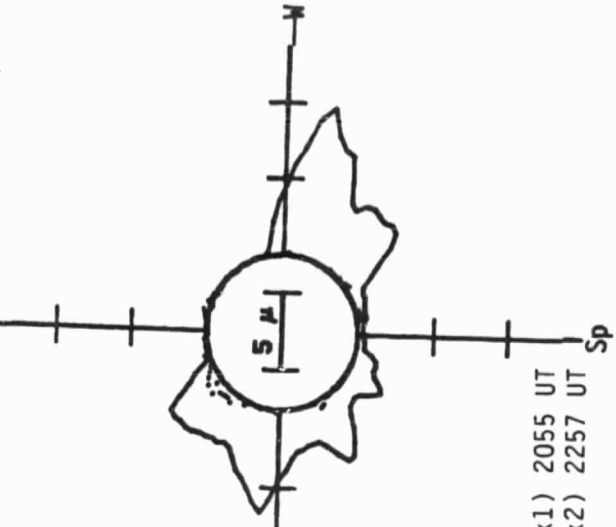


1617 UT

BOULDER SUNSPOTS



SACRAMENTO PEAK CORONA (1.15 Radii)



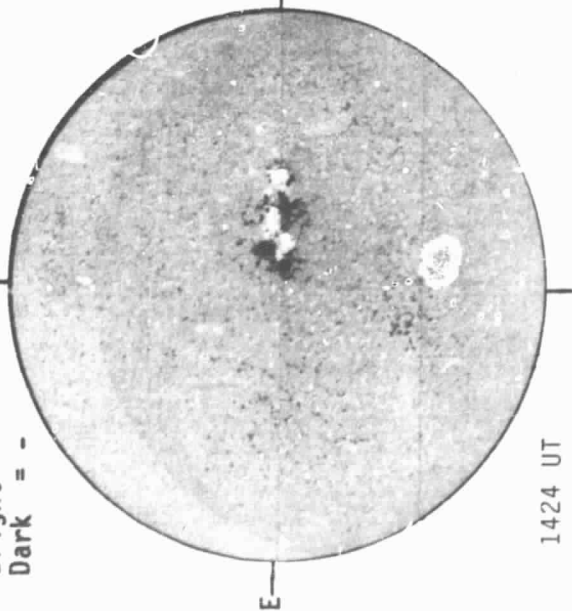
— 5303A(x1) 2055 UT
.... 6374A(x2) 2257 UT

OCTOBER 23, 1985 (P= 25.62, B₀ = 5.17, L₀ = 16.16)

KITT PEAK MAGNETOGRAM

Bright = +
Dark = -

Np

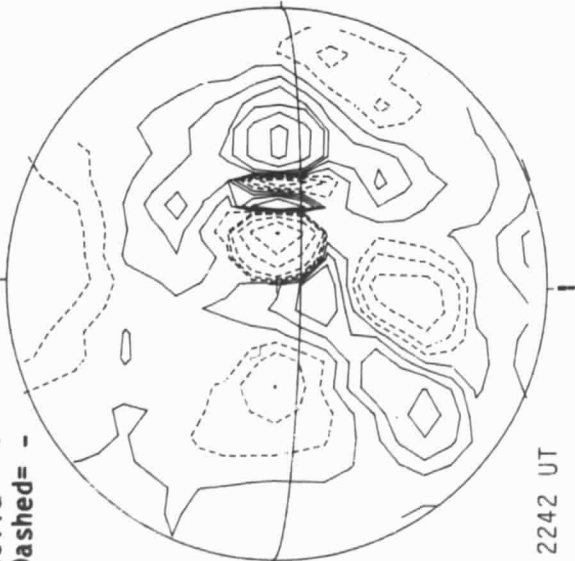


1424 UT

STANFORD MAGNETOGRAM

Solid = +
Dashed = -

Np

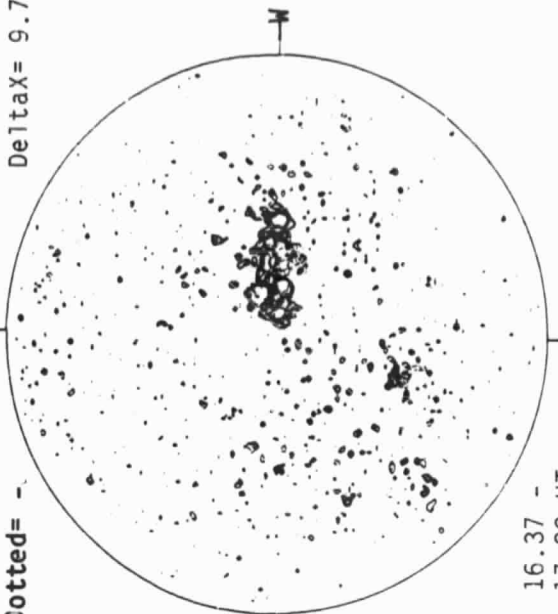


2242 UT

MT. WILSON MAGNETOGRAM

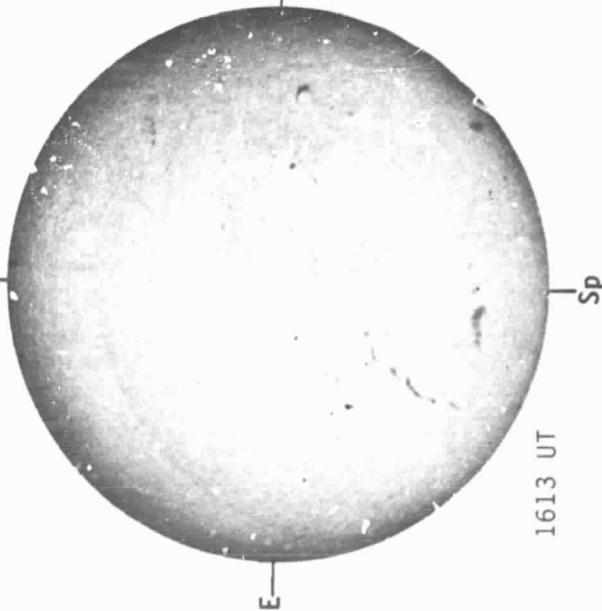
Solid = +
Dotted = -

Np



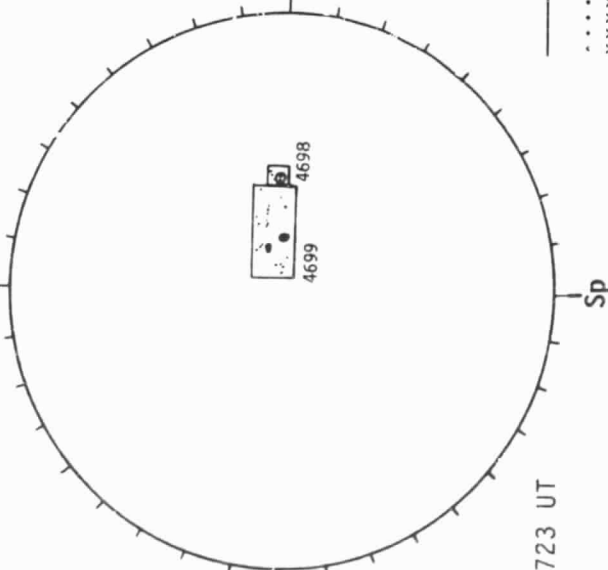
16.37 -
17.28 UT

SACRAMENTO PEAK H-ALPHA



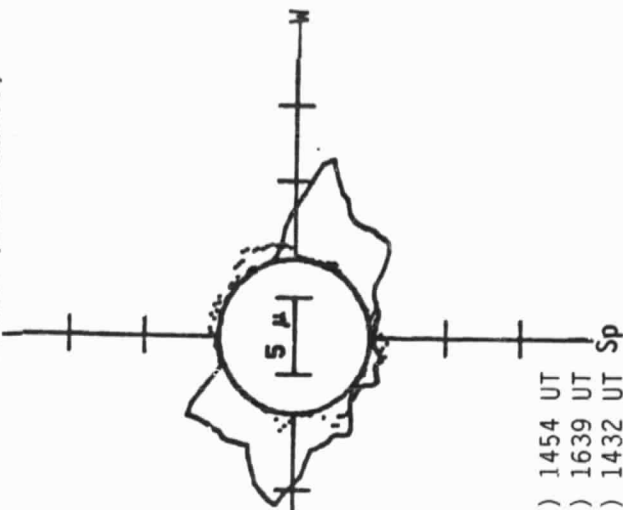
1613 UT

BOULDER SUNSPOTS



1723 UT

SACRAMENTO PEAK CORONA (1.15 Radii)



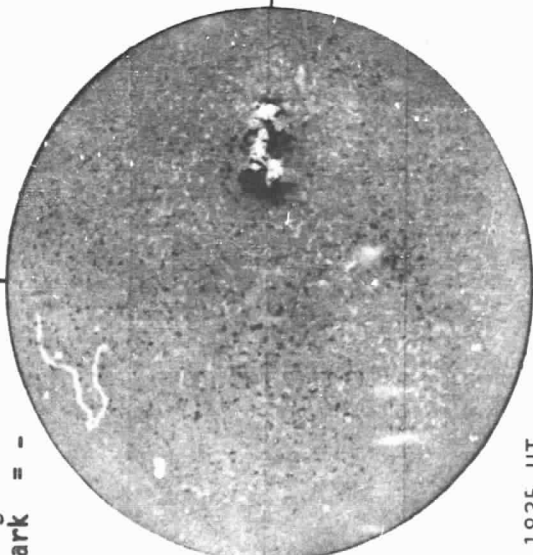
5303A(x1) 1454 UT
6374A(x2) 1639 UT
xxxx 5694A(x6) 1432 UT
No 5694A Activity Today

OCTOBER 24, 1985 (P= 25.51, B₀ = 5.08, L₀ = 2.97)

KITT PEAK MAGNETOGRAM

Bright = +
Dark = -

Np

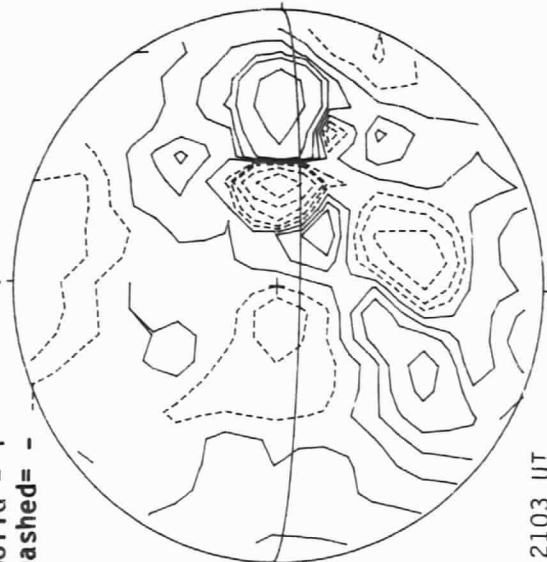


1835 UT

STANFORD MAGNETOGRAM

Solid = +
Dashed = -

Np

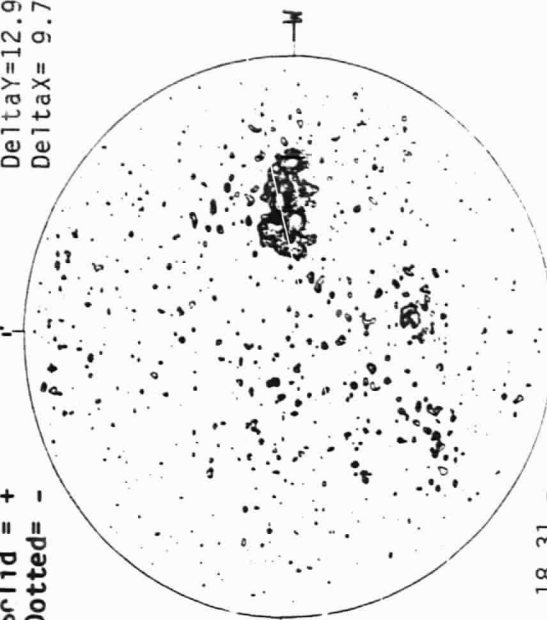


2103 UT

MT. WILSON MAGNETOGRAM

Solid = +
Dotted = -

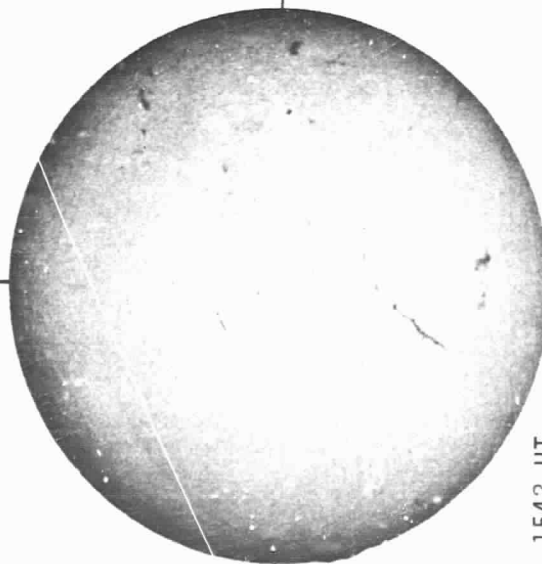
Np



18.31 -
19.22 UT

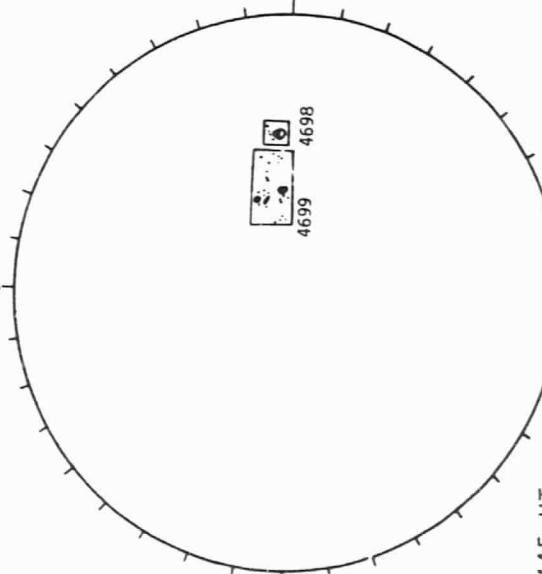
Delta Y = 12.9
Delta X = 9.7

SACRAMENTO PEAK H-ALPHA



1542 UT

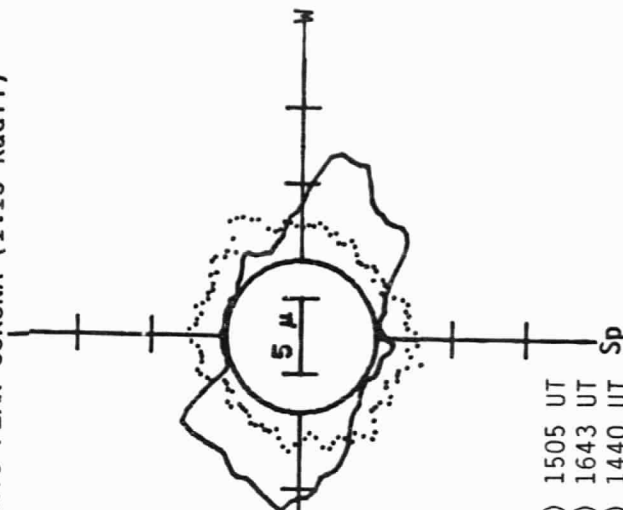
BOULDER SUNSPOTS



1445 UT

4699 4698

SACRAMENTO PEAK CORONA (1.15 Radii)



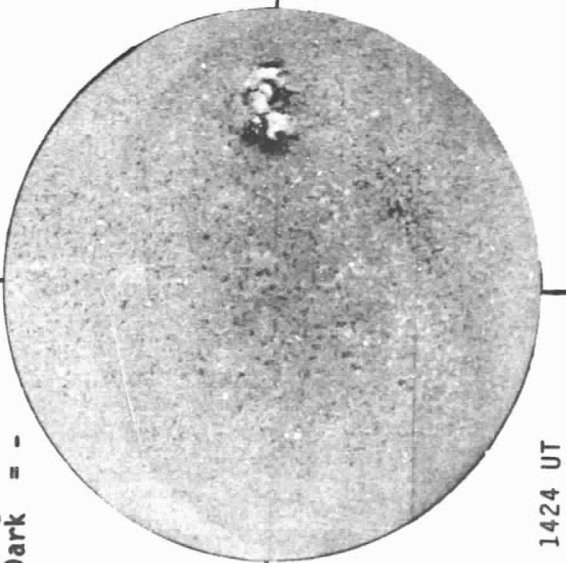
— 5303A(x1) 1505 UT
.... 6374A(x2) 1643 UT
xxxx 5694A(x6) 1440 UT
No 5694A Activity Today

OCTOBER 25, 1985 (P= 25.41, B₀ = 4.99, L₀ = 349.79)

KITT PEAK MAGNETOGRAM

Bright = +
Dark = -

Np

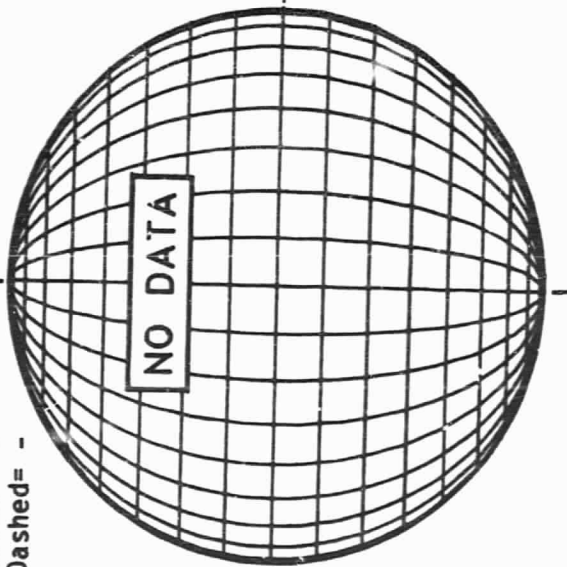


1424 UT

STANFORD MAGNETOGRAM

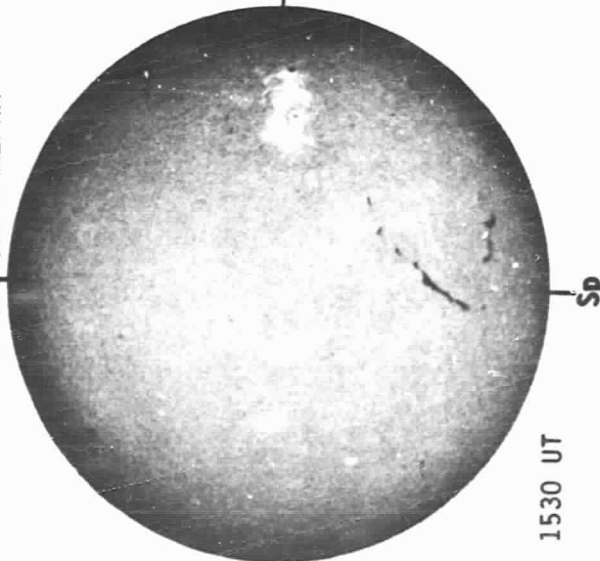
Solid = +
Dashed = -

Np



SACRAMENTO PEAK H-ALPHA

1530 UT

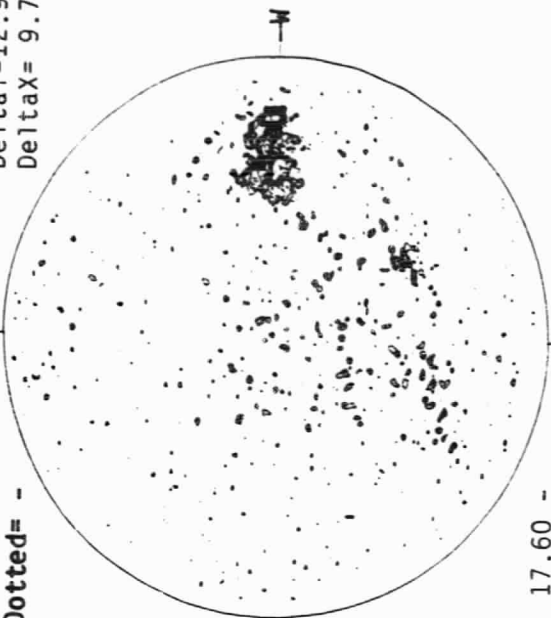


Sp

MT. WILSON MAGNETOGRAM

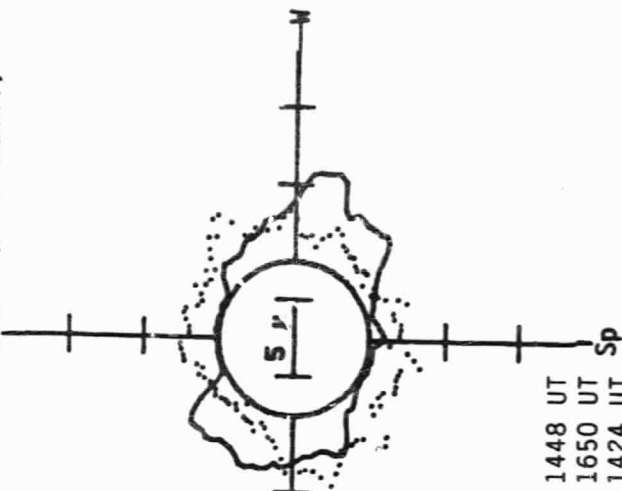
Solid = +
Dotted = -

Np



17.60 -
18.51 UT

SACRAMENTO PEAK CORONA (1.15 Rad11)



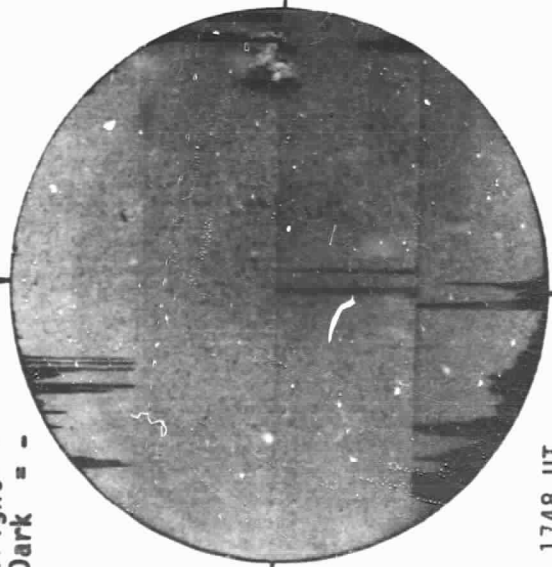
— 5303A(x1) 1448 UT
.... 6374A(x2) 1650 UT
xxxx 5694A(x6) 1424 UT
No 5694A Activity Today

OCTOBER 26, 1985 (P= 25.29, B₀ = 4.90, L₀ = 336.60)

KITT PEAK MAGNETOGRAM

Bright = +
Dark = -

Np

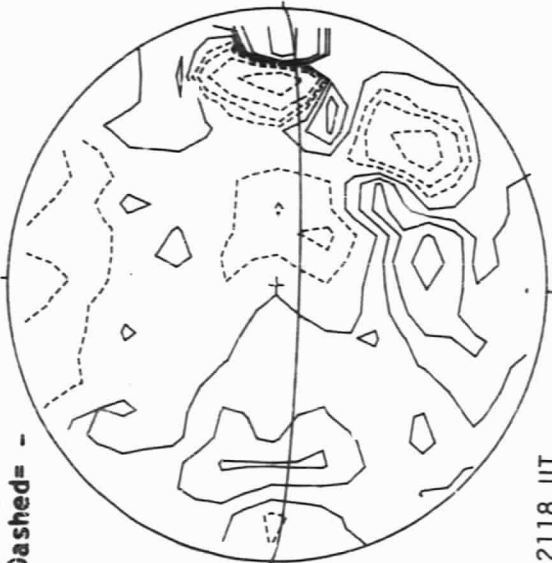


1748 UT

STANFORD MAGNETOGRAM

Solid = +
Dashed = -

Np

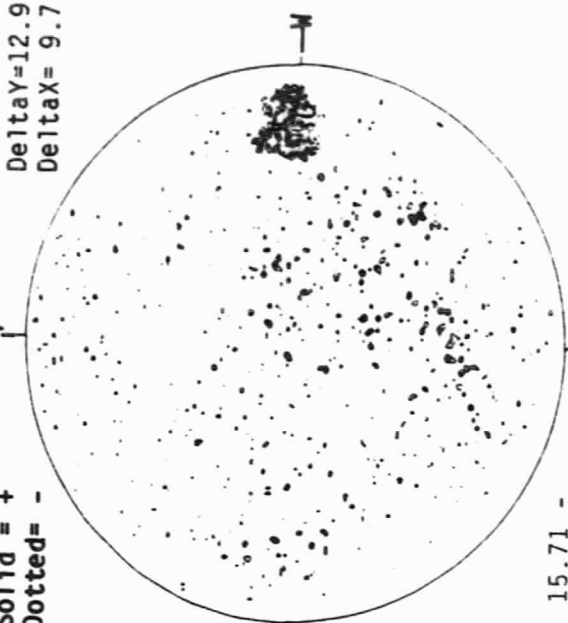


2118 UT

MT. WILSON MAGNETOGRAM

Solid = +
Dotted = -

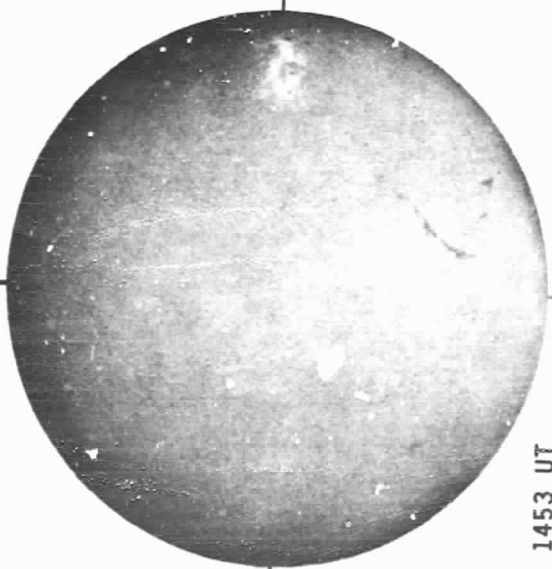
Np



15.71 -
16.62 UT

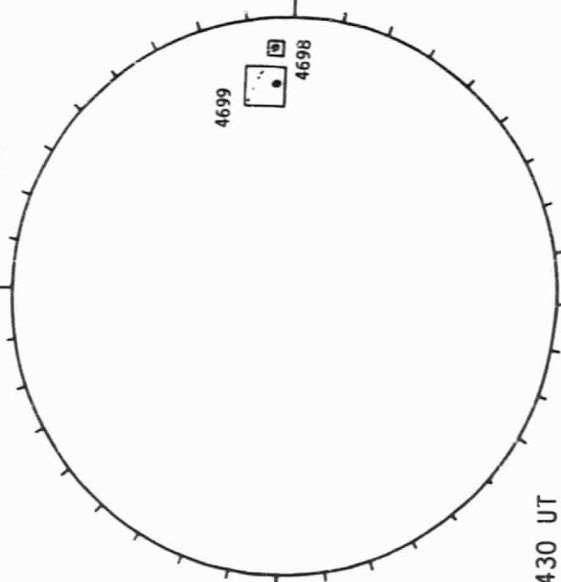
DeltaY=12.9
DeltaX= 9.7

SACRAMENTO PEAK H-ALPHA



1453 UT

BOULDER SUNSPOTS



1430 UT

4699
4698

SACRAMENTO PEAK CORONA (1.15 Rad11)



NO DATA

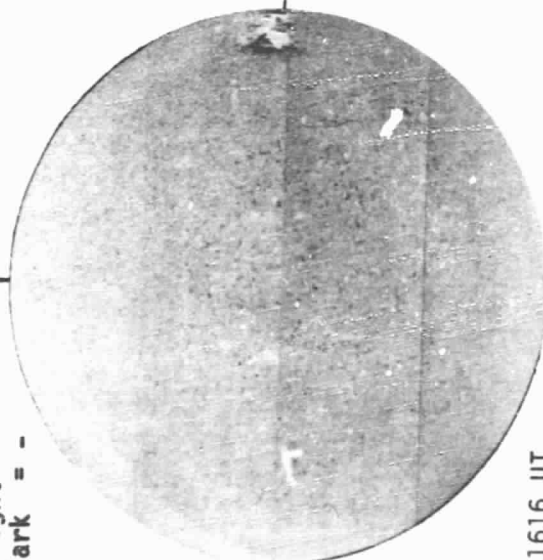
Sp

OCTOBER 27, 1985 (P= 25.17, B₀ = 4.81, L₀ = 323.41)

KITT PEAK MAGNETOGRAM

Bright = +
Dark = -

Np

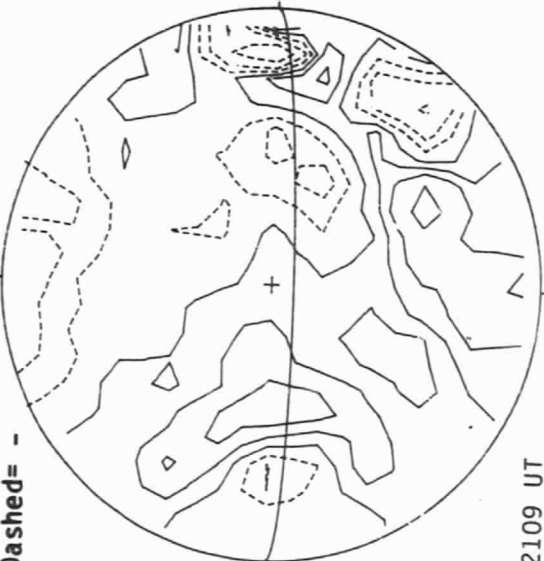


1616 UT

STANFORD MAGNETOGRAM

Solid = +
Dashed = -

Np

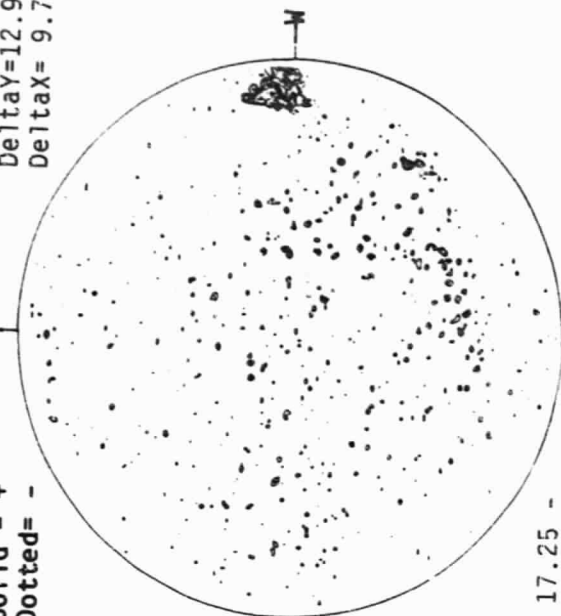


2109 UT

MT. WILSON MAGNETOGRAM

Solid = +
Dotted = -

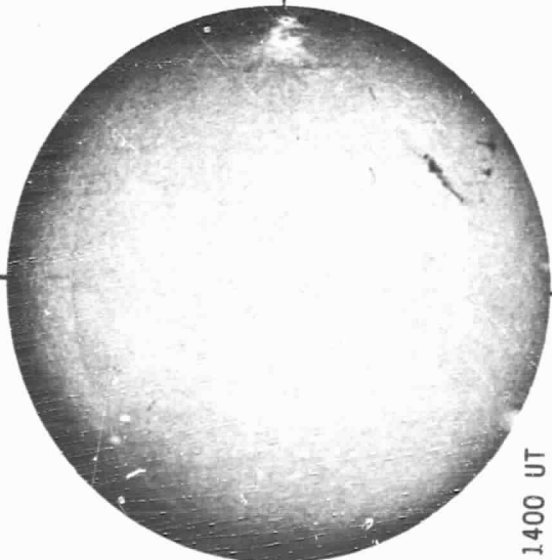
Np



17.25 -
18.15 UT

54
Oct 85
DeltaY=12.9
DeltaX= 9.7

SACRAMENTO PEAK H-ALPHA

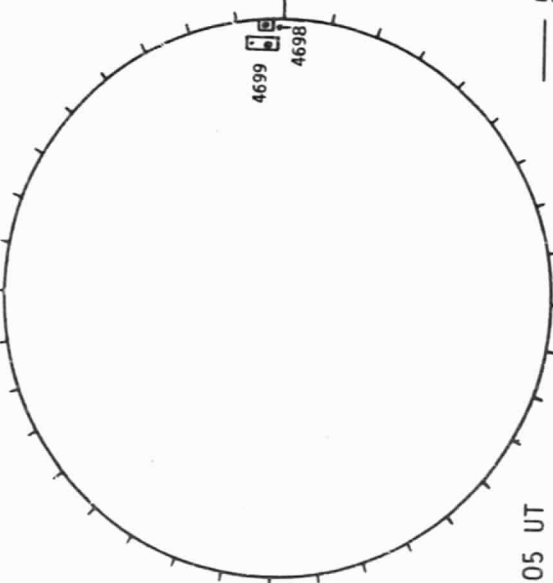


1400 UT

E

Sp

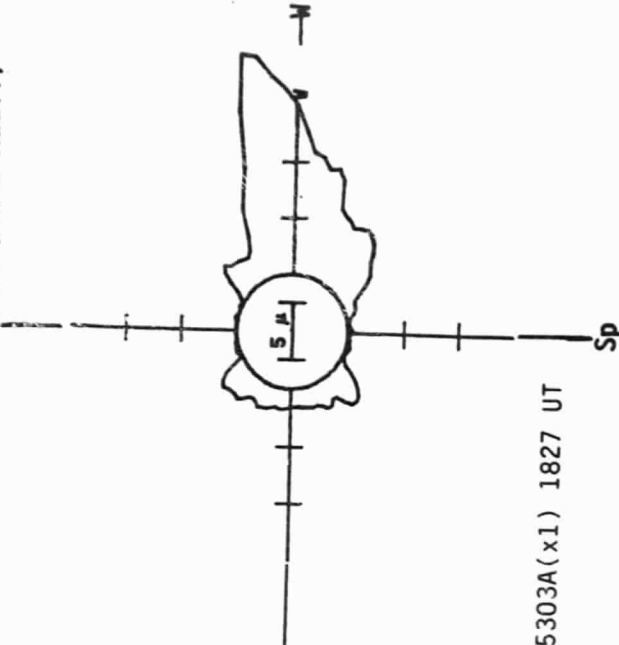
BOULDER SUNSPOTS



1705 UT

Sp

SACRAMENTO PEAK CORONA (1.15 Rad11)



— 5303A(x1) 1827 UT

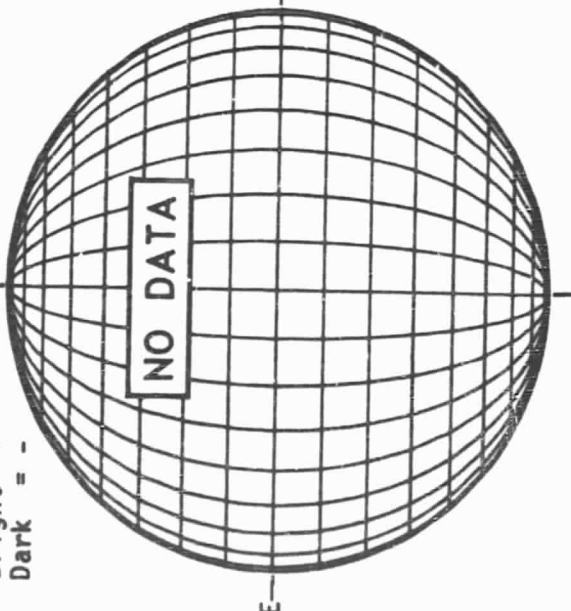
Sp

OCTOBER 28, 1985 (P= 25.04, B₀ = 4.72, L₀ = 310.22)

KITT PEAK MAGNETOGRAM

Bright = +
Dark = -

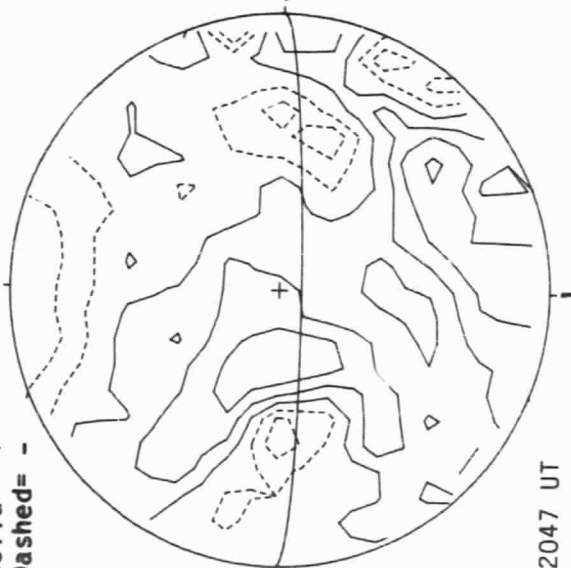
Np



STANFORD MAGNETOGRAM

Solid = +
Dashed = -

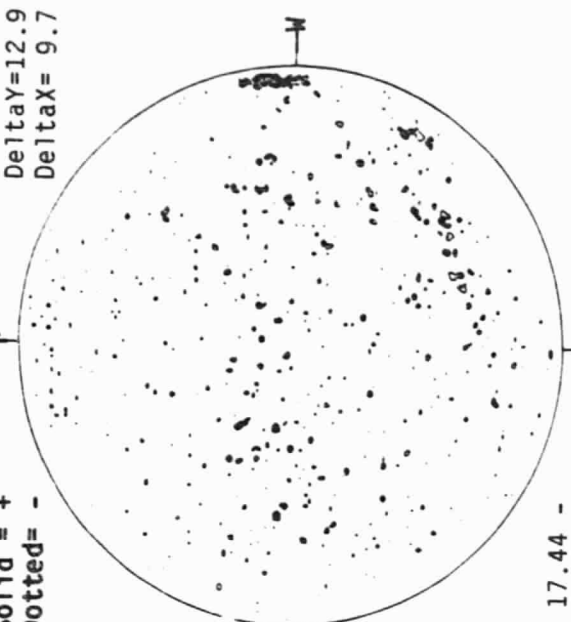
Np



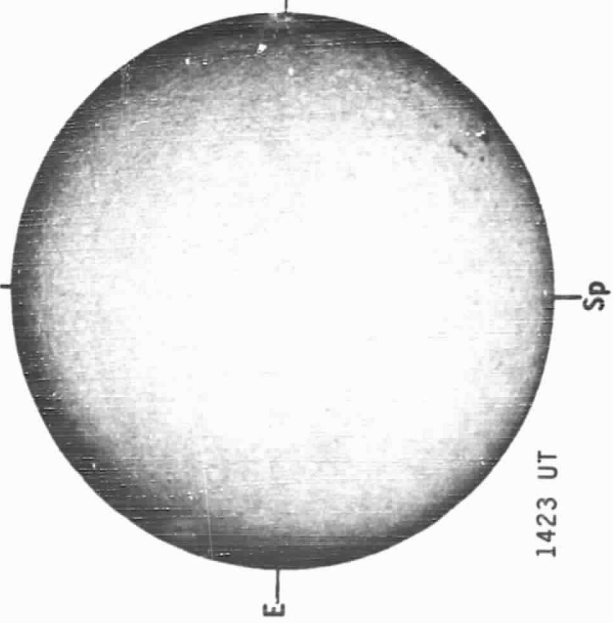
MT. WILSON MAGNETOGRAM

Solid = +
Dotted = -

Np



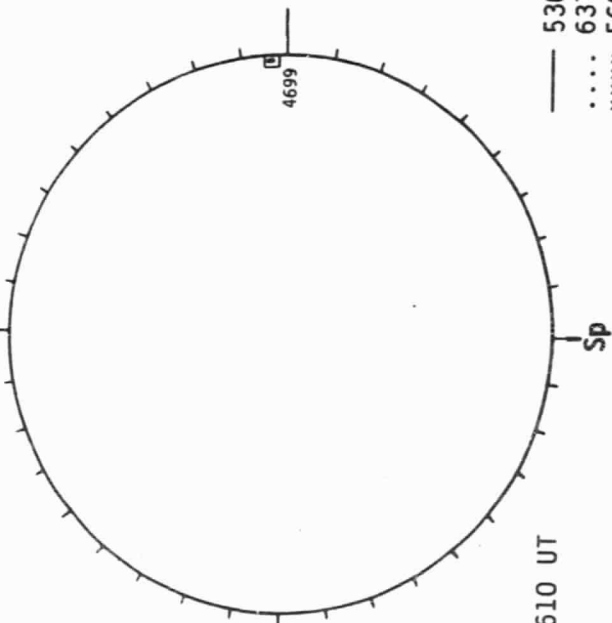
SACRAMENTO PEAK H-ALPHA



1423 UT

Sp

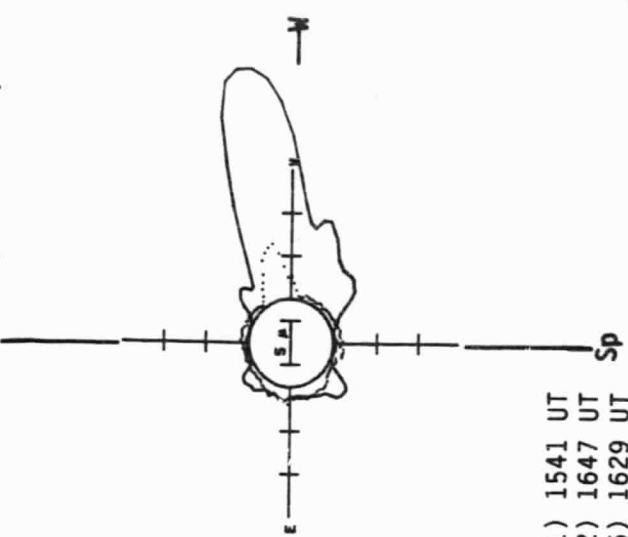
BOULDER SUNSPOTS



1610 UT

Sp

SACRAMENTO PEAK CORONA (1.15 Rad11)



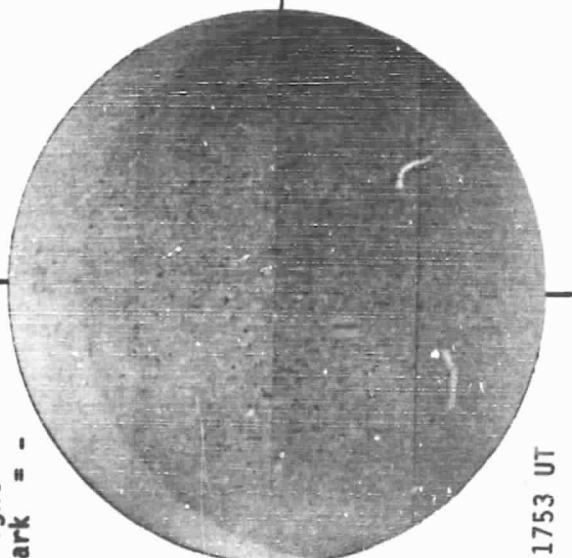
— 5303A(x1) 1541 UT
.... 6374A(x2) 1647 UT
xxx 5694A(x6) 1629 UT
No 5694A Activity Today

OCTOBER 29, 1985 (P= 24.90, B₀ = 4.62, L₀ = 297.04)

KITT PEAK MAGNETOGRAM

Bright = +
Dark = -

Np

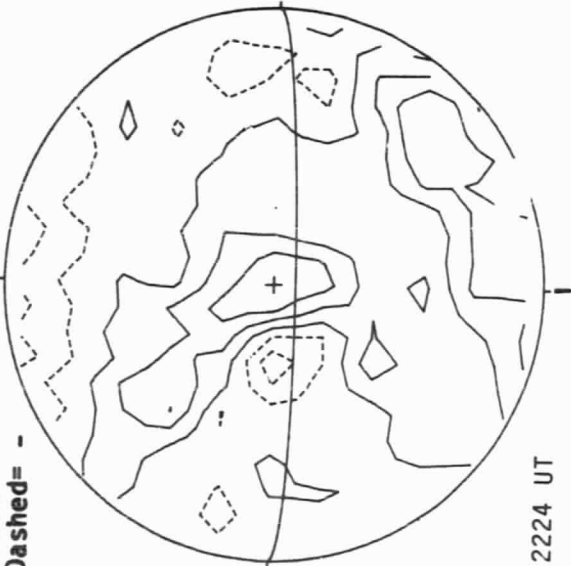


1753 UT

STANFORD MAGNETOGRAM

Solid = +
Dashed = -

Np

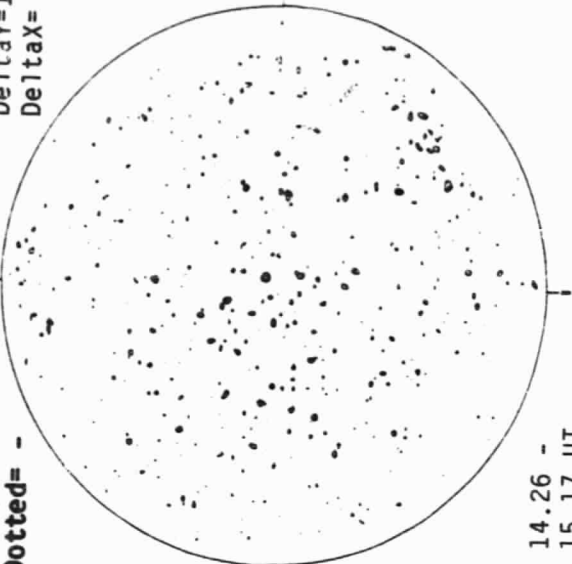


2224 UT

MT. WILSON MAGNETOGRAM

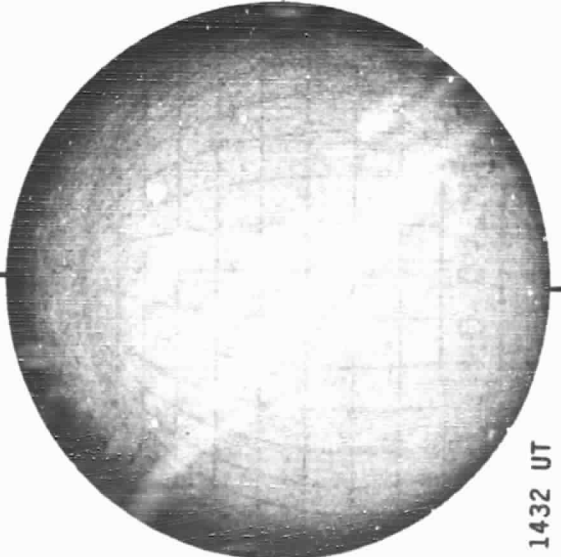
Solid = +
Dotted = -

Np



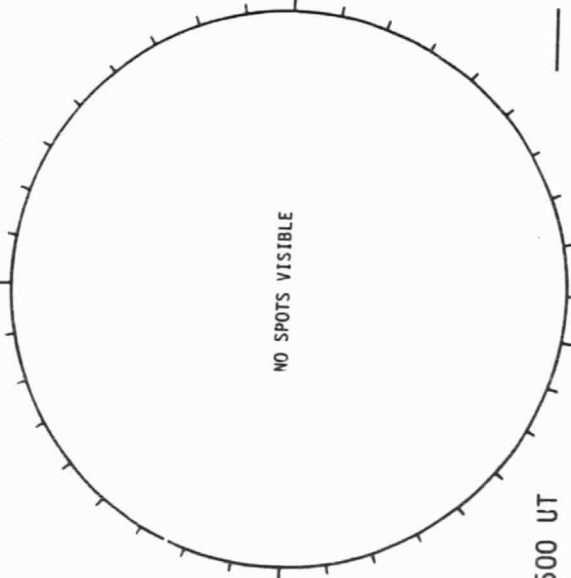
14.26 -
15.17 UT

SACRAMENTO PEAK H-ALPHA



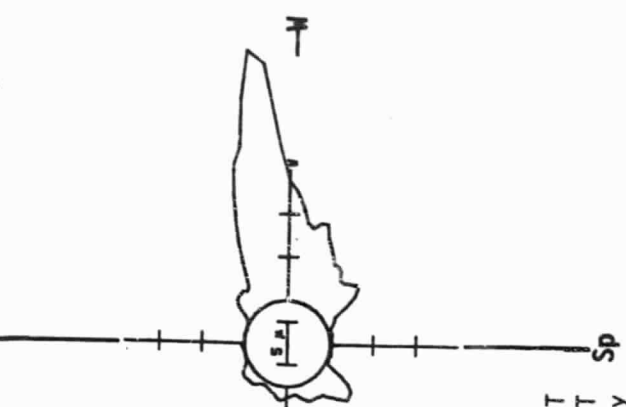
1432 UT

BOULDER SUNSPOTS



1500 UT

SACRAMENTO PEAK CORONA (1.15 Radii)



— 5303A(x1) 1455 UT
xxx 5694A(x6) 1608 UT
No 5694A Activity Today

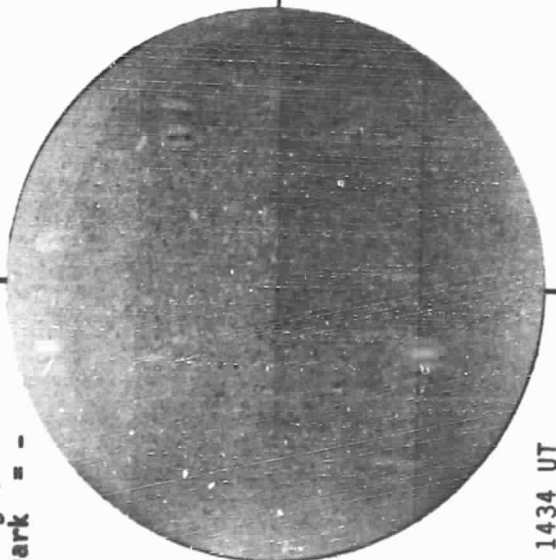
56
Oct 85
Delta Y = 13.0
Delta X = 9.7

OCTOBER 30, 1985 (P= 24.75, B₀ = 4.53, L₀ = 283.85)

KITT PEAK MAGNETOGRAM

Bright = +
Dark = -

Np

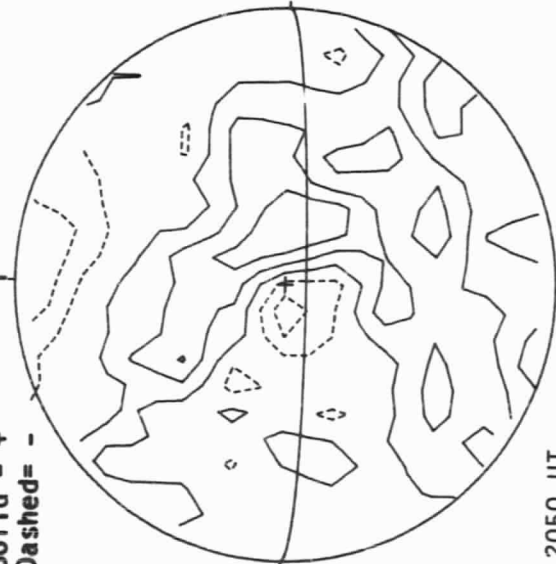


1434 UT

STANFORD MAGNETOGRAM

Solid = +
Dashed = -

Np

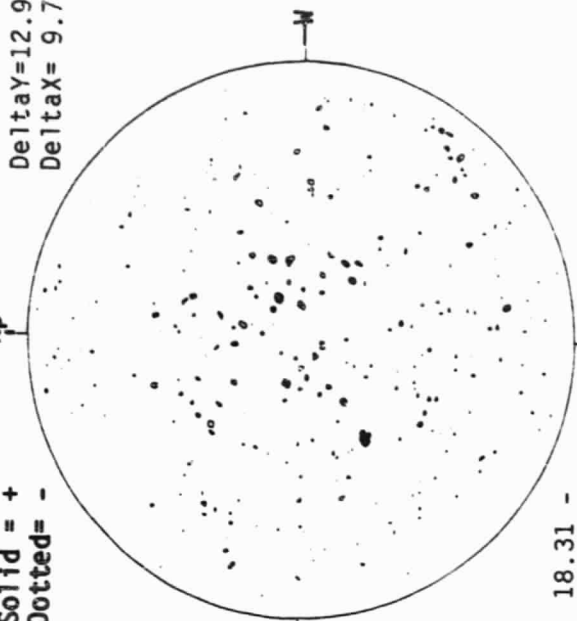


2050 UT

MT. WILSON MAGNETOGRAM

Solid = +
Dotted = -

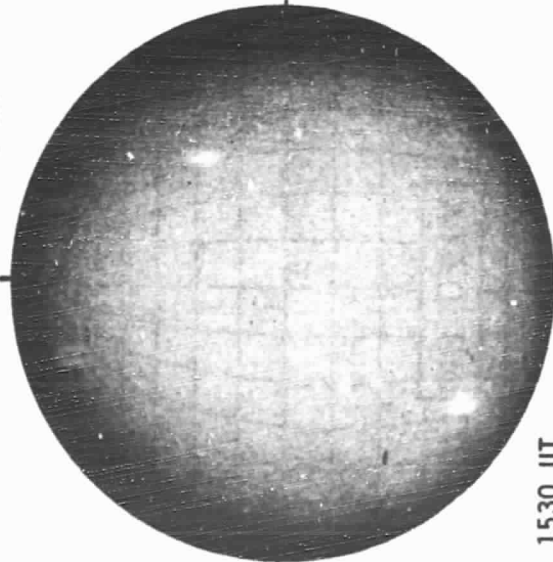
Np



18.31 -
19.22 UT

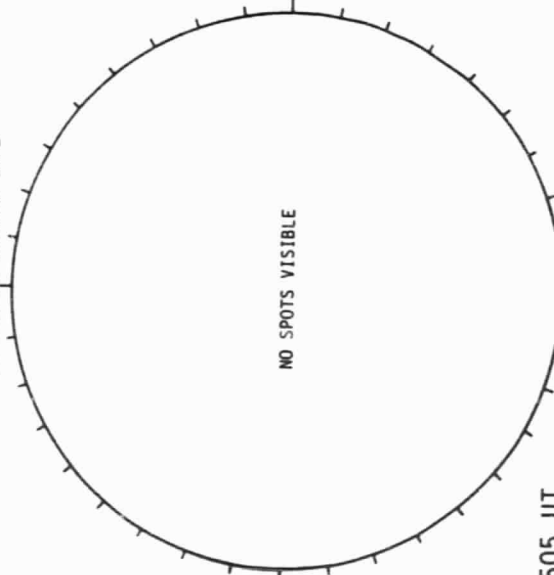
Delta Y = 12.9
Delta X = 9.7

SACRAMENTO PEAK H-ALPHA



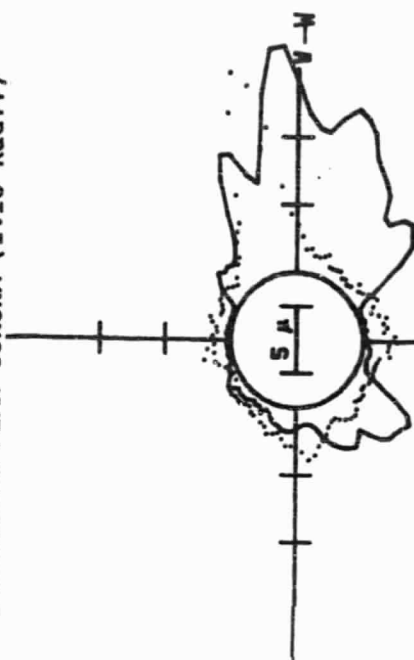
1530 UT

BOULDER SUNSPOTS



1505 UT

SACRAMENTO PEAK CORONA (1.15 Rad11)



— 5303A(x1) 2222 UT
.... 6374A(x2) 2258 UT
xxxx 5694A(x6) 2244 UT
No 5694A Activity Today

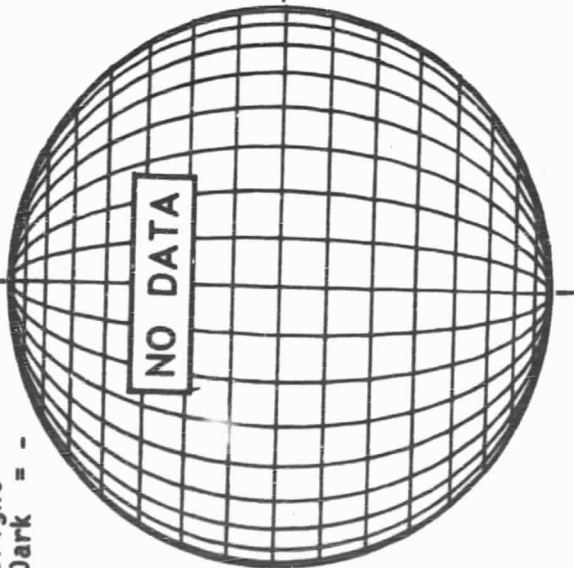
OCTOBER 31, 1985 (P= 24.59, B₀ = 4.43, L₀ = 270.66)

58
Oct 85
Delta Y = 12.9
Delta X = 9.7

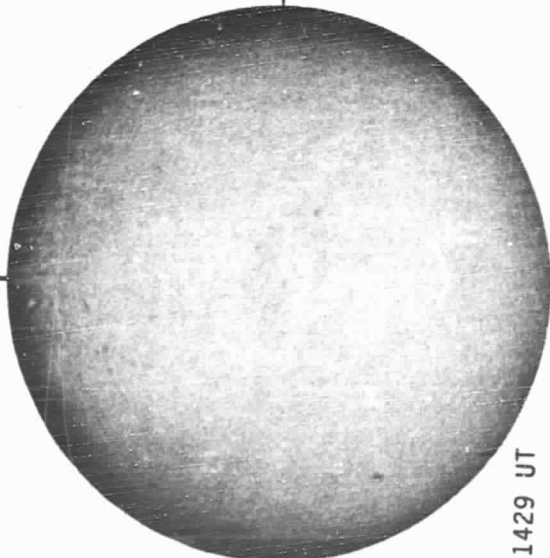
KITT PEAK MAGNETOGRAM

Bright = +
Dark = -

Np



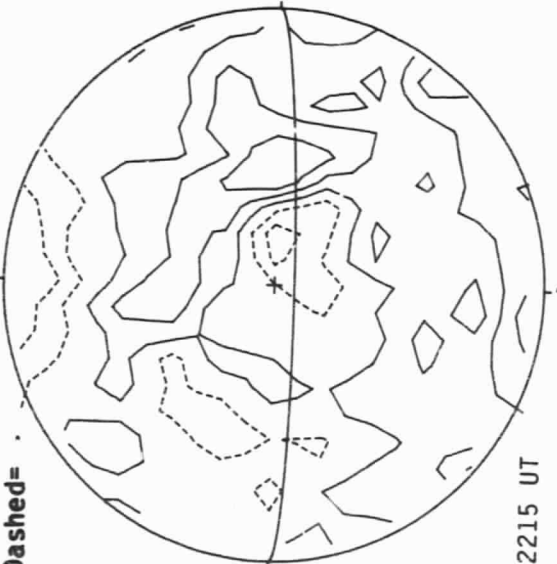
SACRAMENTO PEAK H-ALPHA



STANFORD MAGNETOGRAM

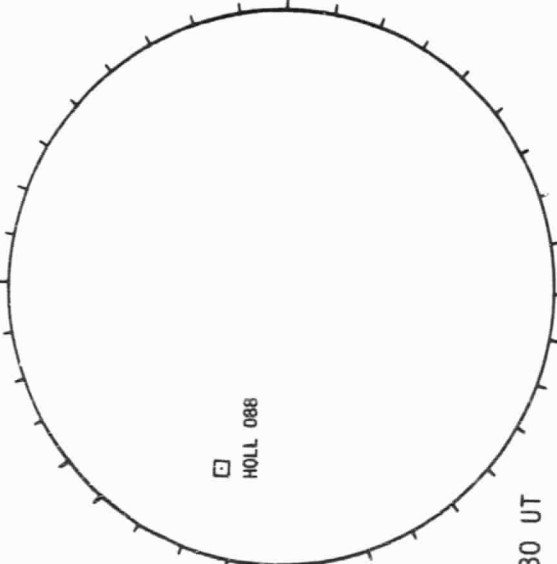
Solid = +
Dashed = -

Np



2215 UT

HOLLOMAN SUNSPOTS



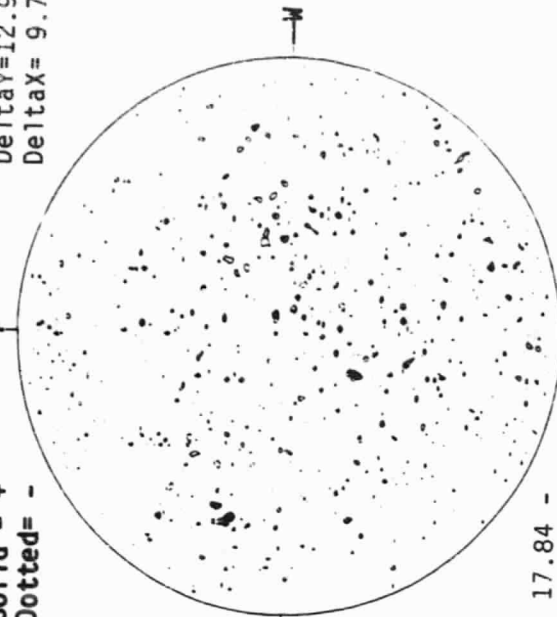
1830 UT

Sp

MT. WILSON MAGNETOGRAM

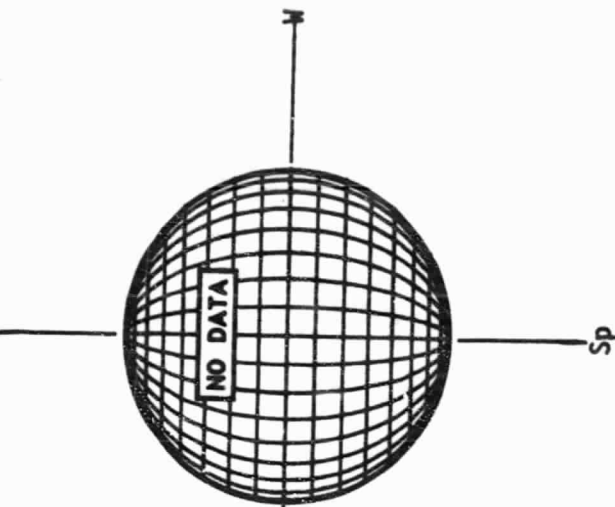
Solid = +
Dotted = -

Np



17.84 -
18.75 UT

SACRAMENTO PEAK CORONA (1.15 Radif)



Sp

S U N S P O T G R O U P S
(ORDERED BY CENTRAL MERIDIAN PASSAGE DATE)

59
Oct 85

OCTOBER 1985

NOAA/ USAF Group	Mt Wilson Group	Sta	Mo	Day	Time (UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
4697A		RAMY	10	11	1320	S07	E11	10	12.4		A	AXX		1		4
4697B		PALE	10	13	1905	S09	W11	10	13.0		B	BX0	10	3	3	3
4697C		HOLL	10	13	1654	S12	W03	10	13.5		A	AXX		1		3
4697	24272	RAMY	10	14	1205	S16	E02	10	14.7		B	DAO	40	3	3	4
4697		MWIL	10	14	1615	S16	W02	10	14.5	3	(B)			7	4	3
4697		PALE	10	14	1830	S16	W02	10	14.6		B	CRO	20	6	4	3
4697		MANI	10	14	2321	S15	W05	10	14.6		B	CRO	30	8	4	3
4697	24272	LEAR	10	15	0005	S16	W06	10	14.5		B	CSO	20	3	4	3
4697		BOUL	10	15	1450	S15	W12	10	14.7		B	CRO	20	3	4	3
4697		HOLL	10	15	1534	S16	W14	10	14.6		B	CRO	30	3	4	3
4697		MWIL	10	15	1630	S16	W15	10	14.5	3	(BP)			4	5	3
4697	24272	PALE	10	15	1753	S17	W15	10	14.6		B	CRO	10	4	5	3
4697		LEAR	10	16	0001	S17	W20	10	14.5		B	CSO	20	2	5	3
4697		RAMY	10	16	1307	S17	W26	10	14.6		B	BX0	20	1	1	3
4697		BOUL	10	16	1440	S15	W28	10	14.5	3	(B)			1		3
4697	24272	MWIL	10	16	1600	S17	W28	10	14.5		A	AXX	10	1		4
4697		PALE	10	16	1759	S18	W32	10	14.3		A	AXX	10	1		3
4697D		BOUL	10	15	1450	S08	W08	10	15.0		A	AXX		1	1	3
4697E		LEAR	10	20	0142	S11	E17	10	21.3		B	BX0	10	2	1	3
4697F		BOUL	10	20	1445	S04	E18	10	22.0		A	AXX		1	1	4
4698	24273	BOUL	10	15	1450	N06	E81	10	21.7		B	HAX	30	1	2	3
4698		HOLL	10	15	1534	N04	E88	10	22.2		A	HAX	90	1	2	3
4698		MWIL	10	15	1630	N04	E82	10	21.8	3	(AP)			4	3	3
4698		PALE	10	15	1753	N06	E86	10	22.2		A	HAX	90	1	2	3
4698	24273	LEAR	10	16	0001	N04	E78	10	21.8		A	HAX	130	4	3	3
4698		RAMY	10	16	1307	N05	E74	10	22.1		B	DAO	140	13	10	3
4698		BOUL	10	16	1440	N06	E70	10	21.9		B	CAO	150	5	10	3
4698		PALE	10	16	1759	N05	E77	10	22.5		B	CKO	180	12	10	4
4698	24273	MWIL	10	16	1930	N04	E57	10	21.1	4	(BP)			15	8	3
4698		MANI	10	17	0003	N04	E69	10	22.2		B	CKO	280	13	8	2
4698		LEAR	10	17	0203	N03	E68	10	22.2		B	CKO	270	29	10	4
4698		RAMY	10	17	1352	N05	E63	10	22.3		B	DAO	300	11	12	3
4698	24273	BOUL	10	17	1526	N06	E64	10	22.4		B	CAI	250	17	10	3
4698		HOLL	10	17	1708	N05	E59	10	22.1		B	CAO	310	16	9	3
4698		PALE	10	17	1951	N05	E59	10	22.2		B	CKO	590	16	11	2
4698		LEAR	10	18	0032	N04	E55	10	22.1		B	CKO	160	5	3	2
4698	24273	ATHN	10	18	0818	N05	E44	10	21.6		B	CAO	140	14	9	4
4698		HOLL	10	18	1512	N04	E47	10	22.1		B	CAO	230	14	9	4
4698		MWIL	10	18	1530	N04	E43	10	21.9	5	(BP)			14	10	3
4698		PALE	10	18	1740	N05	E45	10	22.1		B	CKO	230	13	8	3
4698	24273	LEAR	10	19	0006	N04	E41	10	22.1		BGD	CKO	260	9	8	1
4698		ATHN	10	19	0845	N05	E33	10	21.8		B	CHO	220	6	11	3
4698		BOUL	10	19	1430	N07	E36	10	22.3		B	EKO	310	11	11	3
4698		MWIL	10	19	1530	N04	E29	10	21.8	5	(BP)			20	10	3
4698	24273	PALE	10	19	1746	N04	E32	10	22.1		BG	CKO	290	12	9	3
4698		LEAR	10	20	0142	N04	E27	10	22.1		BG	DKO	270	13	11	3
4698		ATHN	10	20	0610	N05	E25	10	22.1		B	CHO	250	12	9	3
4698		RAMY	10	20	1410	N04	E20	10	22.1		B	CKO	340	13	11	3
4698	24273	BOUL	10	20	1445	N07	E22	10	22.3		B	CSO	260	13	10	4
4698		MWIL	10	20	1530	N04	E16	10	21.8	5	(BP)			13	10	4
4698		HOLL	10	20	1611	N04	E20	10	22.2		B	CKO	300	12	11	4
4698		LEAR	10	21	0005	N04	E15	10	22.1		B	CHO	230	10	12	4
4698	24273	MANI	10	21	0045	N04	E14	10	22.1		B	CHO	260	15	10	2
4698		ATHN	10	21	0642	N04	E10	10	22.0		B	CHO	150	7	9	3
4698		RAMY	10	21	1315	N04	E08	10	22.2		B	CKO	300	9	10	2
4698		BOUL	10	21	1455	N06	E03	10	21.8		A	HHX	250	1	3	3
4698	24273	PALE	10	21	1805	N04	E05	10	22.1		B	CKO	300	19	11	3
4698		LEAR	10	22	0045	N04	E01	10	22.1		B	CKO	230	17	9	2
4698		ATHN	10	22	0600	N06	W06	10	21.8		B	CKO	210	6	3	2
4698		BOUL	10	22	1445	N06	W09	10	21.9		A	HHX	230	5	3	2
4698	24273	MWIL	10	22	1700	N04	W13	10	21.7	6	(BG)			14	9	3
4698		HOLL	10	22	2100	N04	W08	10	22.3		B	CHO	330	15	10	2
4698		PALE	10	22	2106	N03	W10	10	22.1		B	CKO	280	9	4	3
4698		LEAR	10	23	0133	N05	W16	10	21.9		B	CHI	220			

60
Oct 85

SUNSPOT GROUPS
(ORDERED BY CENTRAL MERIDIAN PASSAGE DATE)

OCTOBER 1985

NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo Day (UT)	Lat CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
4698		HOLL	10 23 1435	N04 W23	10 21.9		B	CHO	270	8	9	3
4698	24273	MWIL	10 23 1500	N04 W24	10 21.8	6	(BG)					
4698		BOUL	10 23 1723	N06 W23	10 22.0		B	CSO	230	7	7	2
4698		PALE	10 23 1803	N03 W23	10 22.0		B	EKO	200	12	11	3
4698		LEAR	10 24 0027	N05 W30	10 21.8		B	CSI	150	7	3	4
4698		BOUL	10 24 1445	N06 W36	10 21.9		B	CSI	280	5	5	2
4698	24273	MWIL	10 24 1545	N04 W38	10 21.8	6	(BP)					
4698		PALE	10 24 1757	N03 W35	10 22.1		B	CSO	210	7	10	2
4698		LEAR	10 25 0009	N03 W43	10 21.8		B	CSO	100	4	3	3
4698		ATHN	10 25 1210	N05 W45	10 22.1			CHO	200	6	10	2
4698		BOUL	10 25 1430	N06 W51	10 21.8		A	HSX	120	1	3	1
4698	24273	MWIL	10 25 1500	N04 W50	10 21.9	6	(BP)					
4698		HOLL	10 25 1755	N04 W53	10 21.8		B	CKO	150	2	3	3
4698		RAMY	10 25 1953	N04 W52	10 21.9		B	CSO	140	4	9	1
4698		PALE	10 25 2016	N03 W50	10 22.1		B	CSO	120	4	9	2
4698		MANI	10 25 2317	N03 W52	10 22.1			CSO	90	3	3	3
4698		BOUL	10 26 1430	N07 W64	10 21.8		A	HSX	40	1	2	1
4698	24273	MWIL	10 26 1445	N04 W64	10 21.8	5	(AP)					
4698		HOLL	10 26 1713	N03 W67	10 21.7		B	CKO	140	2	3	4
4698		LEAR	10 27 0220	N05 W69	10 21.9		B	CSO	160	3	6	2
4698		ATHN	10 27 0700	N04 W75	10 21.7			CSO	80	4	7	2
4698		RAMY	10 27 1416	N04 W76	10 21.9		B	CKO	70	3	9	3
4698	24273	MWIL	10 27 1530	N05 W78	10 21.8	4	(AP)					
4698		BOUL	10 27 1705	N04 W79	10 21.8		A	HSX	60	1	2	2
4698		HOLL	10 27 1721	N03 W81	10 21.7		B	CAO	60	2	2	4
4699		RAMY	10 17 1351	N04 E63	10 22.3		A	AXX		2	1	4
4699		HOLL	10 18 1512	N03 E62	10 23.3		A	AXX		2	2	4
4699	24274	MWIL	10 18 1530	N04 E61	10 23.2	3	(B)					
4699		PALE	10 18 1740	N05 E63	10 23.4		B	BXO	10	2	4	3
4699		LEAR	10 19 0006	N04 E57	10 23.3		B	BXO	30	2	4	3
4699		ATHN	10 19 0845	N05 E47	10 22.9			BXO	30	3	3	1
4699		BOUL	10 19 1430	N07 E50	10 23.3		B	CSO	40	5	5	3
4699	24274	MWIL	10 19 1530	N04 E47	10 23.2	4	(B)					
4699		PALE	10 19 1746	N04 E47	10 23.3		B	CAO	70	8	6	3
4699		LEAR	10 20 0142	N04 E42	10 23.2		B	DSO	110	8	6	3
4699		ATHN	10 20 0610	N05 E49	10 23.9			CSO	40	6	5	3
4699		RAMY	10 20 1410	N05 E33	10 23.1		B	DAO	90	6	7	3
4699		BOUL	10 20 1445	N07 E34	10 23.2		B	CSI	70	11	7	4
4699	24274	MWIL	10 20 1530	N05 E32	10 23.0	4	(B)					
4699		HOLL	10 20 1611	N05 E32	10 23.1		B	DAO	80	9	7	4
4699		LEAR	10 21 0005	N05 E27	10 23.0		BG	DSO	60	20	8	4
4699		MANI	10 21 0045	N05 E30	10 23.3			DSO	90	18	11	2
4699		ATHN	10 21 0642	N05 E23	10 23.0			DSO	60	10	9	3
4699		RAMY	10 21 1315	N05 E21	10 23.1		B	DAO	180	35	10	2
4699		BOUL	10 21 1455	N07 E20	10 23.1		B	CKI	80	17	10	3
4699		PALE	10 21 1805	N05 E16	10 23.0		B	DAI	190	45	9	3
4699		LEAR	10 22 0341	N05 E11	10 23.0		BG	DAI	160	64	10	4
4699		ATHN	10 22 0600	N06 E09	10 22.9			DSO	160	16	10	2
4699		BOUL	10 22 1445	N07 E05	10 23.0		B	CSI	180	18	3	2
4699	24274	MWIL	10 22 1700	N05 E03	10 22.9	6	(BG)					
4699		HOLL	10 22 2100	N06 E03	10 23.1		B	EHI	460	45	13	3
4699		PALE	10 22 2106	N05 E01	10 23.0		BG	CSI	320	37	14	2
4699		LEAR	10 23 0133	N05 W01	10 23.0		BG	EAO	270	42	13	3
4699		HOLL	10 23 1435	N04 W12	10 22.7		BG	EAI	400	33	13	3
4699	24274	MWIL	10 23 1500	N05 W09	10 23.0	6	(BG)					
4699		BOUL	10 23 1723	N07 W13	10 22.8		BG	EAI	200	22	15	2
4699		PALE	10 23 1803	N05 W12	10 22.9		B	EKI	340	57	15	3
4699		LEAR	10 24 0027	N05 W15	10 22.9		BG	EAO	220	43	14	4
4699		BOUL	10 24 1445	N08 W24	10 22.8		B	ESI	360	25	15	2
4699	24274	MWIL	10 24 1545	N05 W25	10 22.8	6	(BG)					
4699		PALE	10 24 1757	N06 W27	10 22.7		B	ESI	300	38	15	2
4699		LEAR	10 25 0009	N05 W30	10 22.8		B	ESO	180	31	15	3
4699		ATHN	10 25 1210	N06 W32	10 23.1			ESO	210	23	12	2
4699		BOUL	10 25 1430	N07 W38	10 22.8		B	ESO	210	11	13	1
4699	24274	MWIL	10 25 1500	N05 W38	10 22.8	6	(BG)					
4699		HOLL	10 25 1755	N07 W38	10 22.9		BG	FAI	300	34	16	3
4699		RAMY	10 25 1953	N07 W41	10 22.8		B	ESO	120	19	11	1
4699		PALE	10 25 2016	N05 W42	10 22.7		B	CSI	190	16	15	2
4699		MANI	10 25 2317	N05 W44	10 22.7			FSO	210	25	15	3
4699		BOUL	10 26 1430	N09 W50	10 22.9		B	CSO	60	5	8	1

S U N S P O T G R O U P S
(ORDERED BY CENTRAL MERIDIAN PASSAGE DATE)

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OCTOBER 1985

NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time		Lat CMD	CMP Mo Day	Max H	May Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
4699	24274	MMIL	10 26	1445	N05 W50	10 22.9	6	(BG)					
4699		HOLL	10 26	1713	N07 W53	10 22.7		B	ES0	140	10	12	4
4699		LEAR	10 27	0220	N07 W57	10 22.8		B	CS0	80	8	11	2
4699		ATHN	10 27	0700	N06 W61	10 22.7			CS0	70	4	7	2
4699		RAMY	10 27	1416	N05 W65	10 22.7		B	CS0	90	3	3	3
4699	24274	MMIL	10 27	1530	N05 W65	10 22.8	5	(BP)					
4699		BOUL	10 27	1705	N07 W67	10 22.7		B	CS0	60	2	5	2
4699		HOLL	10 27	1721	N06 W67	10 22.7		B	DS0	70	4	5	4
4699		PALE	10 27	2336	N03 W71	10 22.7		A	HKX	100	1	3	1
4699		LEAR	10 28	0225	N04 W72	10 22.7		A	HSX	40	1	1	2
4699		ATHN	10 28	0730	N05 W75	10 22.7			CS0	90	2	6	1
4699		HOLL	10 28	1500	N04 W79	10 22.7		A	HAX	100	2	3	3
4699		BOUL	10 28	1610	N06 W80	10 22.7		A	HSX	60	1	2	2
4699		MMIL	10 28	1630	N04 W79	10 22.8	3	(AP)					
4699		PALE	10 28	1941	N03 W86	10 22.4		A	HKX	90	1	3	2
4699		LEAR	10 29	0017	N05 W85	10 22.7		A	HSX	60	1	4	3
4699A	24275	MMIL	10 28	1630	N15 E17	10 30.0	3	(AF)					

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SUDDEN IONOSPHERIC DISTURBANCES

OCTOBER 1985

Day	Start (UT)	Max (UT)	End (UT)	Imp	Wide- spread Index	Number of Station Reports by Type					Known Flare	X-ray Class	NOAA/SESC Region
						SWF	SEA	SPA	LF- SPA	SES			
01	0701	0714U	0757	1-	1		1				No Flare		
01	1502	1712	1732	1-	1	1					"		
03	1314	1323	1355	1	1	1					No Flare		
05	1054	1112	1124	1	3		2				No Flare		
05	1837	1847	1855	1-	1	1					No Flare		
06	1915	1918	1931	1-	1	1					No Flare		
07	1600	1618	1646	1+	1	1					No Flare		
07	1837	1848	2043	2	1	1					No Flare		
10	2113	2113	2116	1-	1	1					No Flare		
12	1400	1400	1501	2	1	1					No Flare		
15	0252	0300	0314	1-	1				1		0254 UT	C1.7	
15	1817	1817	2000	2	1	1					No Flare		
16	1757	1759	1813	1	1	1					1247 UT		4698
18	1853	1858	1917	1	1	1					No Flare		
21	2313	2317	2330	1-	1			1			2311 UT		4698
22	0314	0324	0345	1-	1			1			0318 UT	C1.8	4699
22	0410	0434	0534	1-	1			1			0415 UT		4699
22	0534	0538	0557	1-	1			1			0529 UT	C1.1	4699
22	1505	1506	1604	2	1	1					No Flare		
23	1154	1206	1228	1	3		2				No Flare		
23	1455	1508	1608	1	5	2		1	1	5	1431 UT	C6.6	
23	1805	1805	1954	2-	1	1					No Flare		
23	2250	2253	2315	1-	1			1			2244 UT		4699
24	0008	0020	0127	1-	1			1			0006 UT		4698
24	0323	0334	0412	1-	1			1			0321 UT	C1.3	4699
24	0514	0521	0542	1-	1			1			0509 UT	C1.3	4699
24	1027U	1035U	1113	1	1		1				1035E UT		No Data
24	1152	1200	1310	1	5	1	1	2		3	1148 UT	C6.5	No Data
24	1751	1751	2014	2	1	1					1741 UT		4699
25	1849	1901	2000	2	1	1					No Flare		
26	0258	0302	0325	1-	2			2			No Flare		
26	0355	0434	0648	3+	3	1		1	1		0359E UT	M1.8	4698
26	0514	0542	0700	2	1					1	"		
27	1807	1814	1835	1	1	1					1755 UT	C1.4	
28	1636	1642	1645	1	1	1					No Flare		
29	0552	0614	0626	1-	1			1			0542 UT	C2.3	
30	1611	1620	1636	1	1	1					No Flare		
31	1212	1228	1232	1+	1	1					No Flare		

* No flare patrol

OCTOBER 1985

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Region Number																															
4698																1					1			1		1					
4599																						3	1	3							
X-Ray															1							2	1	3		1	1		1		
No Flare	1	1		2	1	2				1		1			1			1				1	2		1	1		1		1	1
No Flare Patrol	1																									1					
No Data																									2						
Event Totals	2	1		2	1	2				1		1			2	1		1			1	4	4	6	1	3	1	1	1	1	1

OBSERVATORIES REPORTING FOR OCTOBER 1985*

Ayrshire, Scotland (AY)	SES	Losov, Czechoslovakia (LO)	SEA
Darmstadt, GFR (DA)	SWF	Louisville, Kentucky, USA (A26)	SES
Edenvale, South Africa (A52)	SES	Maul, Hawaii, USA (MI)	SWF
Farsta, Sweden (FA)	SES	Panska Ves, Czechoslovakia (PU)	SEA, SWF, SES
Hiraiso, Japan (HI)	SWF	Paterson, New Jersey, USA (46)	SES
Houston, Texas (A50)	SES	Sao Paulo, Brazil (UM)	SPA, SES
Huancayo, Peru (HU)	SWF	St. Cloud, Minnesota, USA (SC)	SES
Inubo, Japan (IN)	SPA	Tavares, Florida, USA (A49)	SES
Juliusruh, GDR (JU)	SWF	Tucson, Arizona, USA (A09)	SES
Kuhlungsborn, GDR (KU)	SPA, SEA	Upice, Czechoslovakia (UI)	SEA
Lake Hiawatha, New Jersey, USA (A32)	SES	Valley Cottage, New York, USA	SES
Latrobe, Pennsylvania, USA (A19)	SES	Vsetin, Czechoslovakia (VS)	SEA
Linfong, China (LT)	SPA		

*Observations are not necessarily continuous for each reporting station.

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

OCTOBER 1985

Day	Observation		Sta	Decimetric Band			Metric Band			Dekametric Band			Spectral Type
	Start (UT)	End (UT)		Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	
01	0601	1640	WEIS										
02	0600	0701	WEIS										
	0720	1638	WEIS										
03	0601	0635	WEIS										
04	0604	0626	WEIS										
	0648	1633	WEIS										
05	0604	1631	WEIS										
06	0606	1629	WEIS										
07	0608	1217	WEIS										
	1315	1627	WEIS										
08	0609	1625	WEIS										
09	0610	1256	WEIS										
	1344	1623	WEIS										
10	0614	1621	WEIS										
11	0613	1341	WEIS										
	1404	1619	WEIS										
12	0615	1617	WEIS										
13	0619	1409	WEIS										
14	0643	1613	WEIS										
15	0619	1610	WEIS										
16	0623	0714	WEIS										
	0721	1609	WEIS										
17	0622	1607	WEIS										
18	0624	0802	WEIS										
	0822	1604	WEIS										
19			LEAR				0121.1	0121.3	1				III
			LEAR				0528.1	0528.3	1				III
	0628	1604	WEIS				1217.0	1332.0	2				IN
20			LEAR				0143.8	0144.0	1				III
			LEAR				0233.1	0233.3	1				III
	0627	1602	WEIS				0727.0	0750.0	1				I
			LEAR				2231.5	2232.0	1				V
			LEAR				2252.6	2253.0	1				V
21			LEAR				0004.8	0004.8	1				III
			LEAR				0039.0	00					V
			LEAR				0133.5	01	1				III
			LEAR				0218.8	02					III
			LEAR				0353.8	0					III
			LEAR				0451.6	0	1				III
			LEAR				0517.3	0542.3	3				G
			LEAR				0815.8	0816.1	1				III
	0629	1600	WEIS				0927.4	0931.3	3				IIIGG
			LEAR				0930.5	0931.3	2				III
			WEIS				0936.8	0937.1	2				IIIG
			WEIS				0944.4	0945.1	1				IIIG
			WEIS				0955.6	0956.1	2				IIIG
			WEIS				1027.4	1029.8	2				IIIG
			WEIS				1033.5	1033.5	2				IIIG
			WEIS				1035.3	1035.9	3				IIIG,U
			WEIS				1148.1	1148.3	1				IIIG
			WEIS				1157.6	1157.7	2				IIIG

Observation			Decimetric Band			Metric Band			Decametric Band			Spectral Type
Day	Start (UT)	End (UT)	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	
21			WEIS			1218.3	1223.1	3				IIIGG
			SGMR			1219.3	1220.0	1				III
			WEIS			1224.7	1229.9	3				IIIGG
			SGMR			1224.8	1225.6	1				III
			WEIS			1229.0	1234.0	2				I
			WEIS			1232.3	1232.4	1				IIIB
			WEIS			1239.4	1240.3	1				IIIG
			WEIS			1245.8	1246.2	2				IIIG
			WEIS			1441.7	1445.2	2				IIIGG,U
			PALE			1800.3	1801.1	3				V
			SGMR			1803.8	1804.8	1				V
			LEAR			2230.1	2240.6	1				G
			LEAR			2313.5	2319.1	1				G
22			LEAR			0201.3	0202.1	1				III
			LEAR			0245.6	0245.8	1				III
			LEAR			0328.0	0630.0	1				CONT
			LEAR			0535.6	0536.3	2				III
			LEAR			0827.0	0831.0	1				III
			WEIS			0900.0	1239.0	1				IN
	0633	0645	WEIS			0916.1	0917.3	1				IIIG
			LEAR			0916.3	0917.3	1				III
	0700	1548	WEIS			0943.5	0943.7	1				IIIB
			WEIS			1526.2	1526.9	1				IIIG
			SGMR			1526.3	1527.1	1				V
			SGMR			1711.5	1716.8	1				V
			PALE			2054.1	2056.1	2				III
			PALE			2102.3	2103.6	3				III
			LEAR			2258.8	2300.1	2				III
			PALE			2258.8	2259.5	2				V
			LEAR			2305.3	2306.6	1				III
23			PALE			0156.6	0157.0	2				III
	0632	1556	WEIS			1016.1	1016.7	1				IIIG
			WEIS			1209.6	1209.7	1				IIIB
			SGMR			1613.5	1623.5	1				G
24			LEAR			0043.1	0043.5	1				III
			PALE			0043.1	0043.6	1				III
			LEAR			0119.3	0119.5	1				III
	0634	0817	WEIS			1036.3	1036.5	1				IIIG
	0823	1554	WEIS			1105.2	1105.3	1				IIIB
			WEIS			1229.8	1229.9	1				IIIB
			SGMR			1324.3	1328.3	1				V
			WEIS</									

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SOLAR RADIO EMISSION SPECTRAL OBSERVATIONS

OCTOBER 1985

Day	Observation			Decimetric Band			Metric Band			Decimetric Band			Spectral Type
	Start (UT)	End (UT)	Sta	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	
28	1158	1434	WEIS										
	1456	1547	WEIS										
29	0642	1545	WEIS										
30	0644	1414	WEIS										
	1428	1544	WEIS										
31	0648	1542	WEIS										

The symbols used under the column heading SPECTRAL TYPE have the following definitions:

- | | |
|--|-------------------------------|
| B = Single burst | RS = Reverse slope burst |
| G = Small group (< 10) of bursts | DP = Drifting pairs |
| GG = Large group (> 10) of burst | DC = Drifting Chains |
| C = Underlying continuum (particularly with Type I) | H = Herringbone |
| S = Storm in the sense of Intermittent but apparently connected activity | W = Weak |
| N = Intermittent activity in this period | P = Pulsations |
| U = U-shaped burst of Type III | CONT = Continuum |
| | UNCLF = Unclassified activity |
| | DCIM = Fast drift |

COSMIC RAY INDICES
(Neutron Monitor)

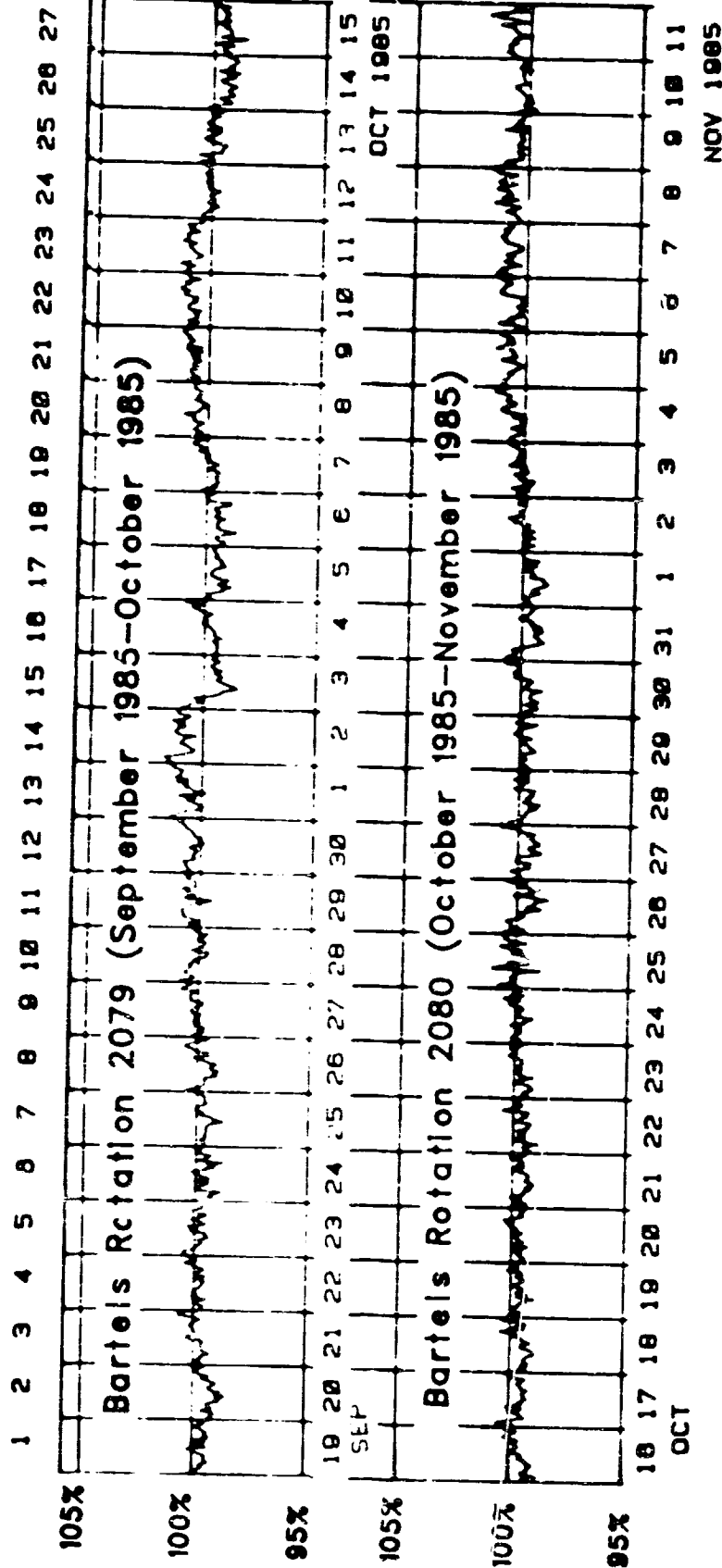
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Day	THULE Average (cts/h)/100	ALERT Average (cts/h)/100	DEEP RIVER Average (cts/h)/300	KIEL Average (cts/h)/100	CLIMAX Average (cts/h)/100	PREDIGTSTUHL Average (cts/h)/100	TOKYO Average (cts/h)/256	HUANCAYO Average (cts/h)/100
1	4475			6192.6		1241	3631.7	
2	4486			6223.8		1243	3643.2	
3	4423			6162.5		1236	3632.0	
4	4436			6184.8		1240	3628.7	
5	4419			6165.4		1241	3632.1	
6	4420			6149.8		1239	3624.4	
7	4439			6162.2		1239	3634.7	
8	4463			6219.3		1237	3642.2	
9	4476			6234.4		1234	3640.3	
10	4481			6213.3		1238	3640.4	
11	4479			6190.7		1236	3631.2	
12	4447			6170.2		1230	3632.9	
13	4440			6162.1		1232	3633.4	
14	4414			6136.5		1229	3635.4	
15	4421			6156.1		1228	3641.2	
16	4437			6182.0		1232	3632.6	
17	4441			6188.4		1229	3630.1	
18	4436			6178.1		1229	3633.9	
19	4442			6169.6		1228	3629.2	
20	4445			6169.3		1229	3625.5	
21	4437			6156.4		1226	3628.0	
22	4439			6153.4		1230	3636.8	
23	4444			6179.4		1233	3644.0	
24	4451			6197.6		1236	3645.9	
25	4462			6212.8		1238	3649.6	
26	4445			6228.2		1241	3650.0	
27	4443			6242.3		1242	3651.0	
28	4445			6228.8		1239	3652.9	
29	4447			6230.2		1244	3646.3	
30	4446			6243.3		1225	3637.8	
31	4442			6254.9		1238	3635.6	
Mean	4446			6191.5		1235	3637.2	

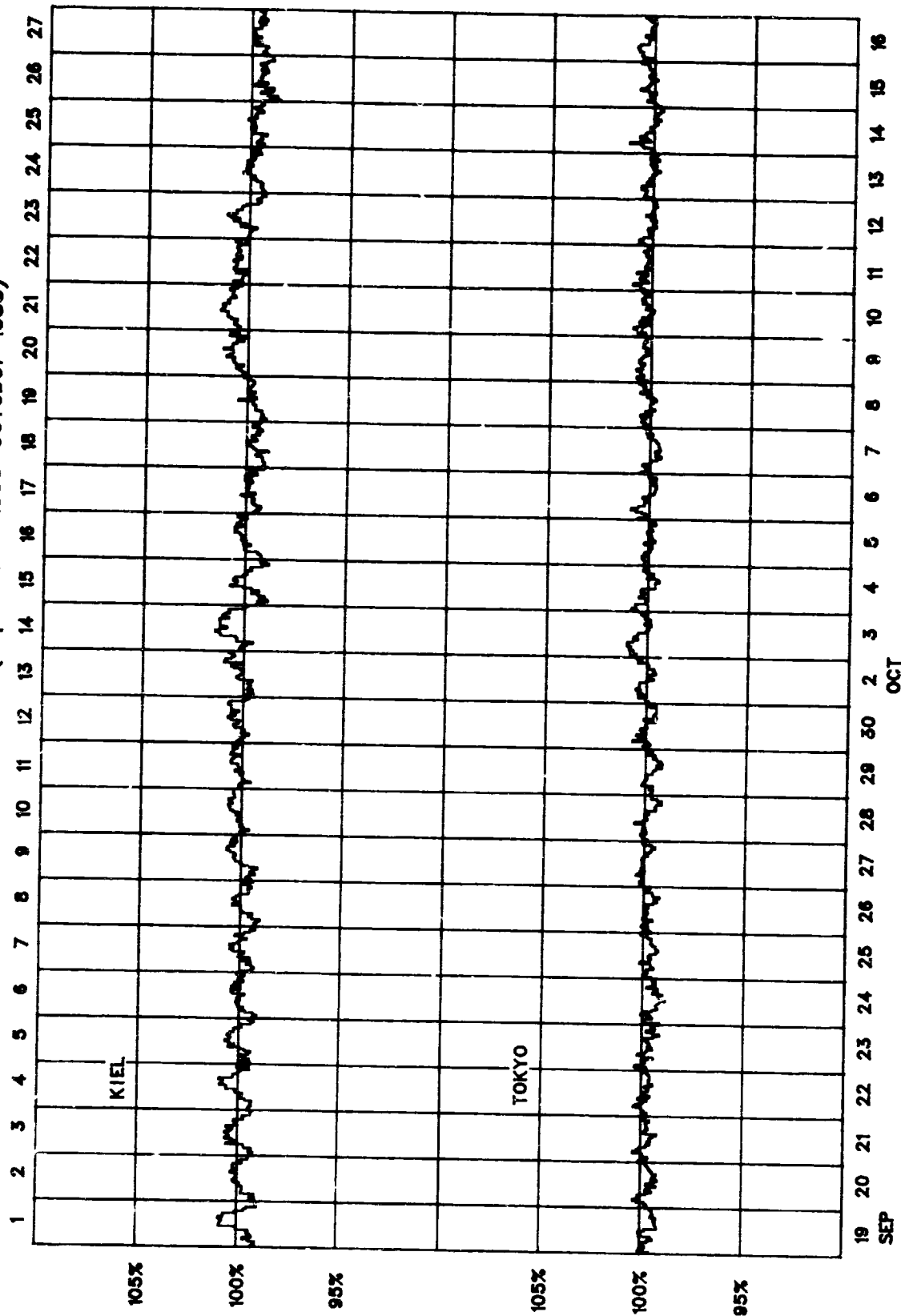
For less than 24-hour coverage, parentheses enclose the number of hours for which data are available.
For Climax and Huancayo, parentheses enclose the number of section hours whenever the sum of both sections falls below 40 hours.

THULE NEUTRON MONITOR



COSMIC RAY INDICES (Neutron Monitor)

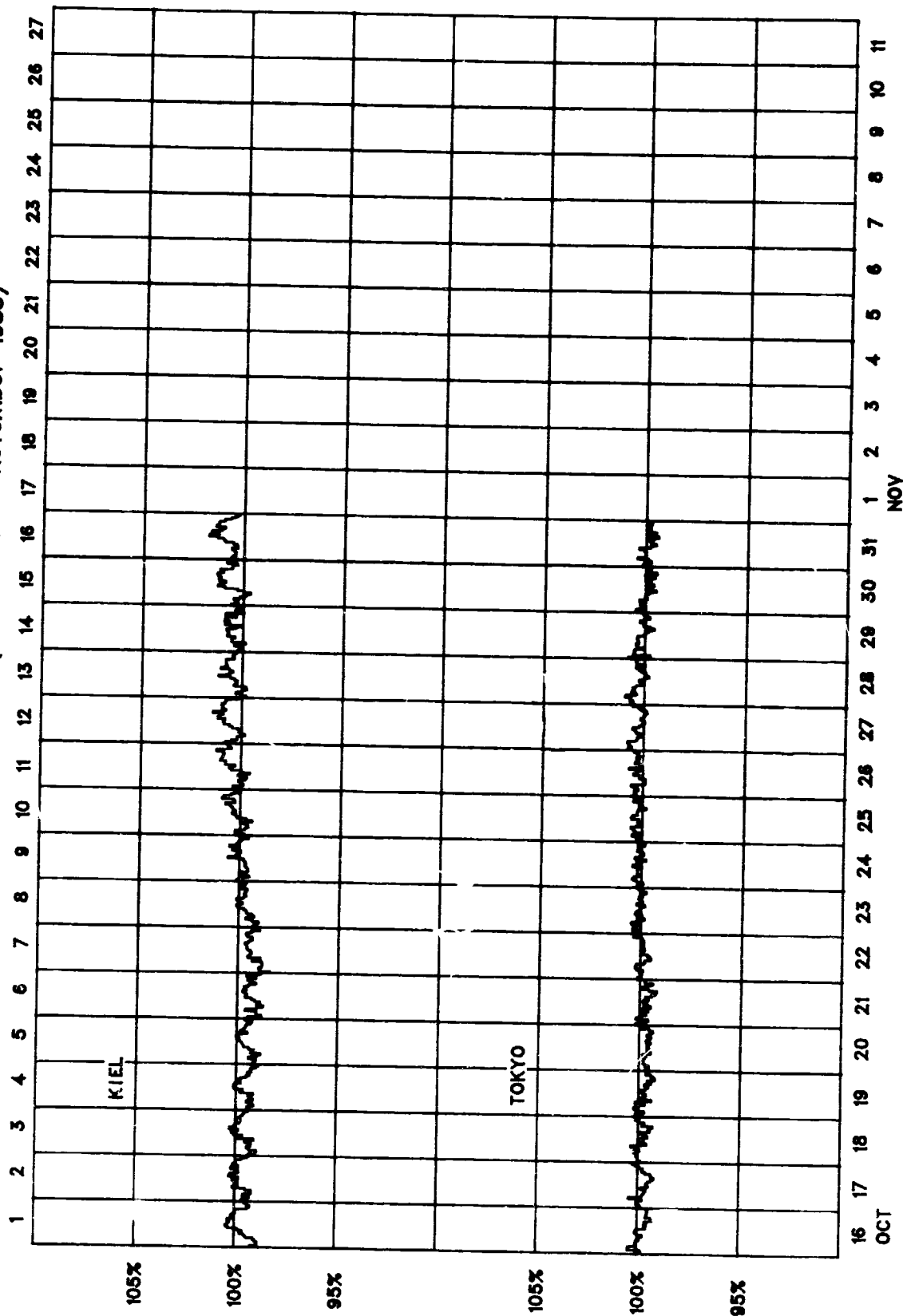
Bartels Rotation 2079 (September 1985-October 1985)



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COSMIC RAY INDICES
(Neutron Monitor)

Bartels Rotation 2080 (October 1985–November 1985)



GEOMAGNETIC ACTIVITY INDICES

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October 1985

Kp Three-Hourly Indices																									Km Three-Hourly Indices																									aa Provisional			
Day		1	2	3	4	5	6	7	8	Sum	Ap	Cp	1	2	3	4	5	6	7	8	Am	N	S	M																													
1	Q1	1+	1-	0+	0+	1-	1-	1-	1-	5+	3	0.1	1+	1	0	0+	1-	0+	0+	1-	4	4	4	4	4	CC																											
2	Q6	2+	1+	2	1+	0+	1	1+	2-	11+	5	0.2	2-	1+	2+	1+	1-	1+	2	2	11	14	8	11	12	CK																											
3		1	2+	3-	3-	3	3+	2+	2-	19	11	0.6	1+	2	3	3+	3	3-	2+	1+	22	19	23	21	21																												
4		3-	3	3-	2+	2	2-	3	3+	21-	12	0.7	2-	2+	3-	3-	3-	2+	3	4-	24	22	22	20	24																												
5	D1	3-	6	6	5	4+	5	7	6+	42+	66	1.7	3-	5	5	5-	4	4+	6	6	88	72	74	63	84																												
6	D2	5+	4	6-	5+	5	4	3+	4+	37	41	1.5	5-	3	5-	4-	4+	3+	3	4	52	48	45	56	38																												
7	D3	4	4+	4	3+	3	5	4	4-	31	27	1.2	4-	4	4-	3+	3	4	3+	4-	42	48	32	36	45																												
8		3+	4-	3	3	2+	3+	4-	2+	25-	16	0.9	3+	3-	2+	3-	3-	3	3+	3-	27	34	22	26	31																												
9	Q10	2-	3-	2+	0+	1+	1+	2	1	13-	6	0.3	1+	2+	2	1-	2-	1+	2+	1+	12	13	9	9	14	C																											
10	Q9	1	2	2+	1+	2-	1-	2+	2-	13	6	0.3	1+	2-	3-	1+	2-	1-	2	2-	13	13	11	11	13	CK																											
11		2	3-	3+	3-	2+	4-	4-	4-	24	16	0.9	2	2	3	3-	2+	4-	3+	3+	27	28	21	15	35																												
12		5-	2	2-	1+	2	3-	2+	2+	19	12	0.7	4+	2-	1+	2-	2	3	2+	3-	22	23	14	19	19																												
13	D5	3-	5	3-	2+	4-	4+	3	3	26+	20	1.0	2+	4	3-	2+	3	4-	3-	3-	31	34	30	30	34																												
14		2	3	2	3+	2-	2-	2-	1	16	8	0.5	2	3	2	3	1+	2	1+	1+	15	19	13	20	13																												
15		2-	5-	5+	2+	2	2+	2	3	23+	18	1.0	2-	4	5-	2	2	2+	2-	3	29	24	26	34	16																												
16		4	4	4+	3+	2+	3-	1	2+	24	17	0.9	3+	3+	4-	3+	2+	2+	2-	3-	28	30	24	36	18																												
17		3	3+	2	2+	3	4-	3+	3	24-	15	0.8	3-	3-	2+	3-	3	3	3	3	26	30	21	23	29																												
18	D4	4	2+	2+	4	4+	4-	4-	4+	29-	22	1.1	3+	2	2+	4-	4-	4-	4-	4-	36	41	31	26	46																												
19		4	3	3+	4	2+	1+	1	1-	20-	14	0.8	4-	3-	3	4-	3-	1+	1	1-	23	24	25	34	15																												
20	Q7	1	2	3-	2	2-	1-	2	0+	12+	6	0.3	1	2-	3-	2	2-	1	2	1-	12	12	9	12	10	CK																											
21		1-	2+	3-	3-	3	5	3-	3+	22+	16	0.9	1-	2+	3-	3-	3	4+	3-	3+	28	33	24	17	40																												
22		4-	4	4	2-	2-	2+	4-	3+	24+	17	0.9	4-	4-	4-	2-	2-	2+	3+	3-	29	31	28	32	28																												
23		3	3-	2+	3	2+	3-	2+	4-	22	13	0.7	2+	2	2	3-	3-	3-	2+	3+	21	25	21	19	28																												
24		3-	2+	2+	1	0+	2	3-	1+	15-	8	0.4	2	2+	2+	1-	1-	3-	3	1	15	15	12	11	15	K																											
25		3-	3	2	2	2-	2+	2+	2	18	9	0.5	2+	2	2	2+	2+	2+	2-	2-	17	19	15	15	20																												
26	Q3	1-	1	2-	1+	1+	0	1-	1	8-	4	0.1	1	1	1+	1+	2-	0	1-	1+	7	6	9	8	8	CC																											
27	Q4	1-	0+	1	1-	0+	1-	1+	2+	7+	4	0.1	1-	1-	1	1	1	1	1	2+	8	10	6	6	11	CC																											
28	Q5	2+	1	2-	1+	0+	0	0+	0+	7+	4	0.1	3-	1+	1	1+	1	0+	0+	1	8	9	6	11	4	CK																											
29		3+	3+	3	4-	2	2-	0+	1-	18	11	0.7	3+	3-	3-	3+	3-	2-	1	1-	20	18	18	25	10	K																											
30	Q2	1-	1-	1-	1-	1	0+	2-	1-	6+	3	0.1	1	1-	1	1+	1+	1-	2-	1	7	7	7	7	8	CC																											
31	Q8	1	2	1-	2-	1+	3-	2+	1	13-	6	0.3	1+	1+	0+	2	2-	3-	2	1+	12	15	15	12	19	K																											
Mean											14	0.65												23.1	24.0	20.2	22.2																										

Day	Kn Three-Hourly Indices								An	Ks Three-Hourly Indices								As	S _a	Prov R ₁	R _a	R _s	IMF		
	1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8								
1	1+	1+	0	0+	1	1	1-	1-	5	1+	1	0+	0+	1-	0	0+	1-	4	68.3	0	0	12	TA	-	
2	2-	1	2	1+	1	1+	2+	2	12	2	2-	2+	1	0+	1	2-	2-	10	67.5	0	0	11	T	-	
3	1+	2	3+	4-	3	3	2+	2-	24	1+	2	3-	3+	3	2+	2+	1+	20	68.7	0	0	12	A	-	
4	2	3-	3	3-	3+	2+	3	4-	27	2-	2	3-	3-	2+	2	3-	3+	22	68.3	0	0	12	A	-	
5	3-	5	5	5	4	4+	6-	5+	86	2+	5-	5	5-	4-	4	6	6+	91	67.0	0	0	10	A	-	
6	5-	3+	5	4	5	4-	3+	4	60	5-	3	4	3+	4	3+	3-	4-	43	66.0	0	0	9	A	-	
7	4-	4-	4	4-	3+	4+	3+	4-	45	3+	4	3+	3	3-	4-	3+	4	40	65.9	0	0	9	A	-	
8	3+	3	3-	3+	3	3	3+	2+	31	3+	2+	2	2+	2+	3-	3	3-	24	65.8	0	0	9	A	-	
9	1+	2+	2+	0+	2-	2-	2+	1+	13	1+	2+	1+	1-	2-	1+	2	1+	11	66.0	0	0	9	T	-	
10	1+	2-	3	1+	2	1	2	2	14	1+	2-	2+	1+	2-	0+	2	2-	12	66.7	0	0	10	AT	-	
11	2-	2+	3+	3	3-	4-	3+	3+	29	2	2-	3-	2	2	3+	3+	3	23	67.7	0	0	11	AT	-	
12	4	1+	1	2-	2+	3	2+	3-	22	4+	2-	1+	1+	2	3-	2+	2+	22	66.9	0	0	10	T	-	
13	2	4	3-	3-	3+	4-	3	3-	33	3-	4-	3-	2	3	4-	3-	3-	29	66.7	11	9	10	T	-	
14	2-	3-	2	3	2-	2+	1+	1+	16	2+	3-	2	3-	1	2-	2-	1	15	69.8	13	10	13	T	-	
15	2-	4	5	2+	2+	3-	2	3	32	2	4	4	2	2-	2	2-	3	26	71.7	15	14	15	AT	-	
16	3+	4-	4-	3+	3-	3-	2-	2+	29	3+	3+	4-	3+	2	2	1+	3-	27	73.2	25	19	17	AT	-	
17	3	3	2+	3-	3	3+	3	3-	28	3-	2+	2+	3-	3-	3	3	3	25	75.5	19	16	20	T	-	
18	3+	2	2+	3+	4-	4	3+	4-	37	4-	2+	2+	4	3+	3	4-	4-	36	75.5	20	20	20	T	-	
19	3+	2+	3	4-	3-	1+	1+	1-	22	4+	3-	3-	4-	3	1+	1	1-	25	77.7	31	28	22	T	-	
20	1+	2-	3-	2	2-	1+	2	0+	12	1-	2-	3-	2	1+	1	2-	1-	11	79.4	46	37	24	T	-	
21	1-	2+	3-	3-	3	4+	3-	3	28	0+	2+	3	2+	3	4+	3-	3+	28	84.7	50	46	29	T	-	
22	3+	4-	4-	2-	2-	3-	3+	3-	29	4-	3+	4-	1+	2-	2+	3+	3-	29	94.3	72	62	40	T	-	
23	3-	2	2	3-	3-	3-	2+	3	21	2+	2+	2	2+	3-	3-	2	4-	22	93.2*	67	61	39	T	-	
24	2	2	2+	1	1	3-	3-	1	14	2	3-	2+	1-	1-	2+	3	1+	15	92.5	63	59	38	T	-	
25	2+	3-	2+	2+	3-	2+	3-	1+	18	2	2	2-	2	2-	2+	2-	2	15	88.5*	55	50	34	T	-	
26	1-	1-	1+	1+	2-	0	1	1+	7	1	1+	1+	2-	2-	0	1-	2-	8	83.0	38	34	28	T	-	
27	1-	1-	1+	1	1	1	1	2+	8	1	1-	1	1	1-	1+	1	2+	8	78.5*	25	25	23	T	-	
28	3-	1	1	2-	1	0+	0+	1-	8	3-	1+	1	1+	1-	0+	0+	1+	8	76.7	14	13	21	T	-	
29	3+	3-	3	4-	3-	2	1	1-	24	3	3-	2	3	2	2-	1	1	17	73.6	11	10	17	-	-	
30	1-	0+	1	1	1+	1-	2-	1-	6	1	1	1	1+	1+	1	2-	1	8	70.5	0	0	14	-	-	
31	1+	1+	0+	2	2-	3-	2+	1+	13	1+	1+	1-	2	2	2+	2-	1	12	69.5	0	0	13	-	-	
Mean									24.3									22.1	74.2	18.5	16.5	18.1			

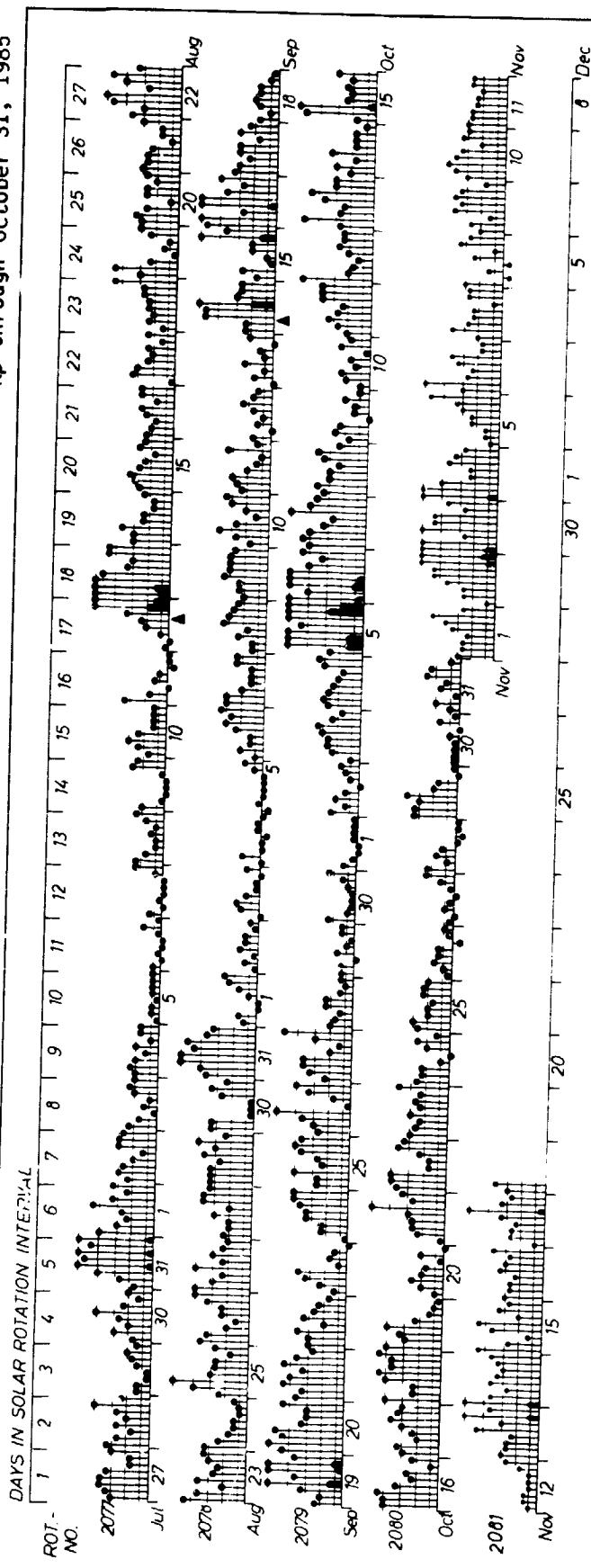
DAILY AVERAGE INDICES Ap

DAY	1984 NOV	DEC	1985 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	27	15	33	15	16	23	10	18	14	18	6	3
2	12	27	17	11	22	16	38	6	3	11	4	5
3	18	22	13	8	14	20	6	4	6	6	4	11
4	18	28	7	3	10	17	10	5	33	6	2	12
5	13	20	6	21	42	7	7	5	16	4	3	66
6	14	22	5	46	24	5	10	25	21	3	9	41
7	20	18	5	20	22	7	8	30	19	4	9	27
8	20	8	19	24	27	15	8	16	16	6	10	16
9	12	6	46	19	4	38	8	22	8	5	12	6
10	18	9	29	24	10	11	4	30	8	7	12	6
11	20	19	20	13	6	11	5	11	10	5	9	16
12	8	17	19	11	7	5	12	10	48	27	5	12
13	10	27	14	11	4	6	11	4	20	41	5	20
14	14	8	9	16	7	10	8	4	16	11	29	8
15	52	24	9	9	14	4	15	5	7	12	18	18
16	112	33	8	7	11	8	11	3	5	9	33	17
17	35	28	9	12	8	5	8	7	20	9	13	15
18	22	15	6	4	11	4	9	4	13	12	5	22
19	21	8	7	7	9	21	9	3	8	12	35	14
20	20	6	6	10	5	53	5	13	8	12	29	6
21	22	13	12	8	5	103	8	7	5	10	23	16
22	14	9	11	7	4	11	5	6	4	28	13	17
23	10	16	36	7	5	12	4	7	13	17	9	13
24	10	4	7	18	6	17	5	5	12	7	17	8
25	10	5	9	12	5	21	8	12	12	18	18	9
26	8	26	6	5	8	30	9	21	16	14	19	4
27	7	17	11	19	10	33	5	13	15	15	17	4
28	6	31	58	60	14	61	5	18	13	13	6	4
29	13	26	24		6	17	4	13	5	17	4	11
30	36	21	17		7	42	3	10	11	10	5	3
31		24	15		10		7		36	32		6
MEAN	21	18	16	15	11	21	9	11	14	13	13	14

PLANETARY 3-HOUR-RANGE INDICES (Kp) BY 27-DAY SOLAR ROTATION INTERVAL

University of Göttingen

Kp through October 31, 1985

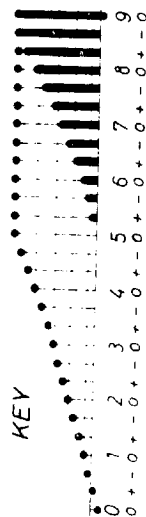


PLANETARY MAGNETIC THREE-HOUR-RANGE INDICES Kp (after Bartels)

Kp till 1985 October 31

Ks (from Wingst and Göttingen) till Nov 18

▲ = sudden
commencement



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PRINCIPAL MAGNETIC STORMS

OCTOBER 1985

Sta	Geomag Lat	Commencement Time		Type	SC Amplitudes			Maximum 3-Hour K Index Day(3-Hour Periods)	K	Ranges			End Hour	
		Day	(UT)		D (Min)	H (Gamma)	Z (Gamma)			D (Min)	H (Gamma)	Z (Gamma)	Day	(UT)
HYB	07.5N	02	1500	..	..	..	..	03(4,5)	4	3	143	17	03	23
WIT	54.2N	04	1940	..	..	..	..	05(7)	7	47	260	82	07	24
FRD	49.6N	04	19--	..	..	..	..	05(8)	6	28	140	120	08	--
JAI	17.3N	04	1900	..	..	..	..		-	5	120	23	07	19
SHL	14.7N	04	1900	..	..	..	..		-	4	113	30	07	19
UJJ	13.5N	04	1900	..	..	..	..		-	4	113	24	07	19
ABG	09.5N	04	1900	..	..	..	..	05(7)	6	4	112	38	07	19
HYB	07.6N	04	0300	..	..	..	..	05(2,7)	6	5	135	31	06	23
GUA	04.0N	04	1944	..	..	..	..	05(2)	6	--	170	20	05	18
ANN	01.5N	04	1900	..	..	..	..		-	--	--	--	07	19
TRD	01.1S	04	1900	..	..	..	..		-	2	168	109	07	19
HER	33.7S	04	19--	..	..	..	..	04(7,8)	6	35	99	122	06	03
COL	64.6N	05	03--	..	..	..	..	05(4) 06(3)	7	283	1620	1100	08	17
SIT	60.0N	05	03--	..	..	..	..	05(2)	7	--	--	740	06	15
IRK	41.0N	05	0500	..	..	..	..	05(4,7) 06(5)	6	30	137	61	07	22
GUA	04.0N	05	2217	..	..	..	..	05(8)	5	10	70	20	06	15
GNA	43.2S	05	02--	..	..	..	..	05(4)	6	28	120	140	06	21
CNB	43.9S	05	03--	..	..	..	..	05(2,3,4,7,8) 06(3)	5	21	152	83	06	18
KGL	56.5S	05	02--	..	..	..	..	05(7)	9	90	880	368	07	03
HYB	07.6N	11	0600	..	..	..	..	11(6)	4	3	99	24	12	03
HYB	07.6N	12	1200	..	..	..	..	13(6)	5	3	72	22	13	23
WIT	54.2N	14	0601	SC	- 2	13	0	14(5)	6	22	169	38	14	24
GUA	04.0N	14	2331	..	..	..	..	15(2)	5	--	140	30	15	18
WIT	54.2N	15	18--	..	..	..	..	15(7)	6	34	182	43	16	24
FRD	49.6N	15	04--	..	..	..	..	15(2,3)	5	20	75	35	17	--
HYB	07.6N	16	2200	..	..	..	..	17(6) 18(4,7)	4	4	86	25	18	22
COL	64.6N	18	06--	..	..	..	..	19(4)	7	112	1210	480	19	16
WIT	54.2N	19	05--	..	..	..	..	19(7)	6	38	215	43	20	10
JAI	17.3N	21	0603	SC	0.3	16	- 3		-	5	112	35	23	23
SHL	14.7N	21	0603	SC	0.3	17	- 4		-	4	101	23	23	23
UJJ	13.5N	21	0603	SC	0.2	19	- 5		-	4	120	35	23	23
ABG	09.5N	21	0603	SC	- 0.3	14	- 4	21(6)	5	4	130	39	23	23
HYB	07.6N	21	0300	..	..	..	..	21(6)	5	3	137	24	22	11
TRD	01.1S	21	0603	SC	0.1	33	39		-	2	175	85	23	23

ABG = ALIBAG
ANN = ANNAMALAINAGAR
CNB = CANBERRA
COL = COLLEGE
FRD = FREDERICKSBURG

GNA = GNANGARA
GUA = GUAM
HER = HERMANUS
HON = HONOLULU

HYB = HYDERABAD
IRK = IRKUTSK
JAI = JAIPUR
KGL = KERGUELEN

SHL = SHILLONG
SIT = SITKA
TRD = TRIVANDRUM
UJJ = UJJAIN
WIT = WITTEVEEN

OCTOBER 1985

Day	Bracknell	Teheran	New York	Tokyo	Johannesburg	Canberra
1	4.4	4.0	5.7	6.2	4.4	4.8
2	4.6	4.6	7.5	5.2	6.0	6.0
3	5.8	8.0	6.0	6.5	8.4	6.2
4	5.6	8.1	6.5	5.5	7.2	6.7
5	3.5	1.4	3.7	3.6	4.7	5.3
6	3.6	1.7	2.4	4.1	3.2	4.4
7	2.8	0.4	2.4	4.5	4.3	3.8
8	2.8	2.2	3.9	3.0	3.8	4.3
9	2.8	0.5	4.5	5.0	3.6	4.4
10	2.9	2.6	5.6	4.2	5.5	4.9
11	3.3	2.2	5.2	4.4	5.7	5.7
12	5.7	6.0	6.2	6.2	7.1	6.4
13	5.8	4.9	7.6	5.6	7.4	6.2
14	6.8	5.0	6.5	5.7	5.2	5.9
15	9.5	4.5	7.6	5.3	5.9	5.7
16	6.3	3.7	6.7	6.0	6.1	5.8
17	7.0	5.7	7.3	6.3	7.2	5.6
18	7.4	5.8	8.2	6.6	6.3	5.7
19	9.7	5.1	6.7	6.1	6.5	5.9
20	5.2	5.8	7.0	7.5	7.3	6.6
21	6.9	6.9	9.5	7.8	7.7	8.1
22	7.1	3.9	8.3	5.6	5.7	7.8
23	5.3	3.9	8.1	5.9	5.9	8.0
24	6.3	3.3	6.8	5.9	4.2	6.9
25	7.6	6.0	6.9	5.8	4.3	8.2
26	8.8	4.0	8.7	6.7	2.8	7.8
27	7.3	5.4	8.3	6.6	6.0	8.2
28	7.2	3.3	6.5	7.6	4.7	8.5
29	6.8	6.4	5.8	7.4	6.3	8.1
30	6.7	5.1	6.4	8.2	5.0	7.5
31	6.0	4.7	7.3	7.8	4.1	6.7
Mean	5.9	4.4	6.4	5.9	5.6	6.3

CALCULATION OF QUALITY INDICES (Q)

From all 24 hourly field strength values and from all frequencies of the same circuit a median field strength value is calculated (FD). This daily value is compared with the average value (FA) of the preceding 27 days (1 sun rotation).

$$Q = 6.0 + 20 \log(FD/FA)/3.0$$

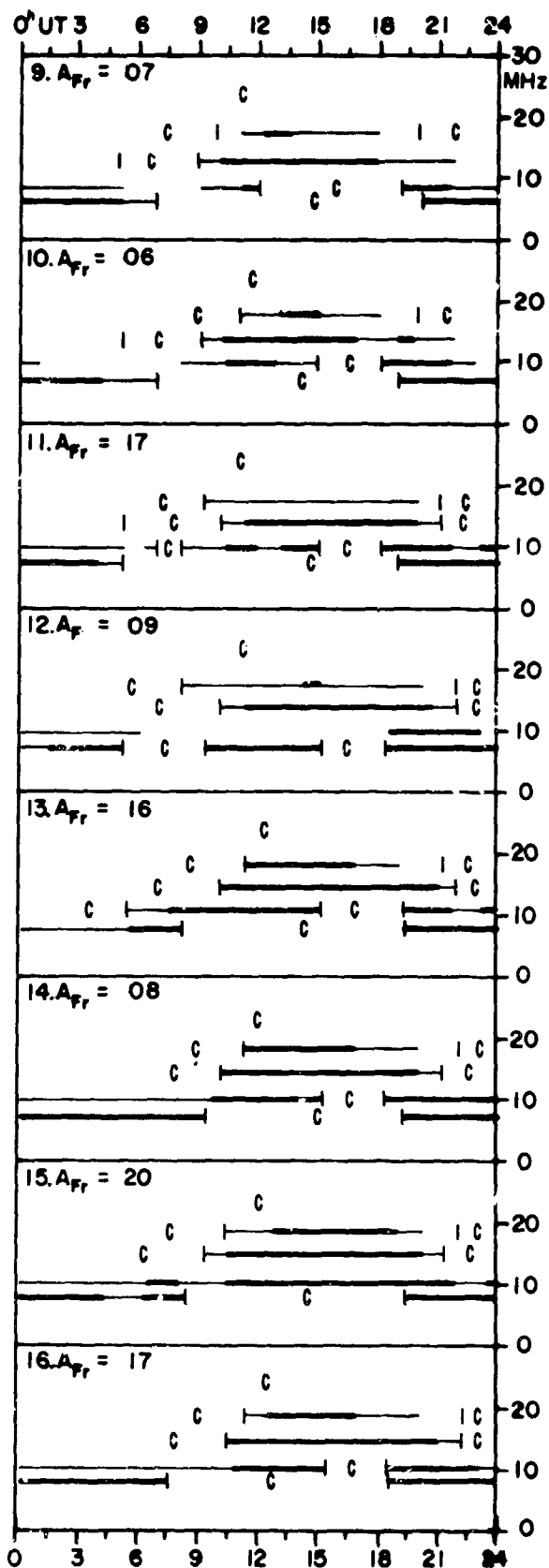
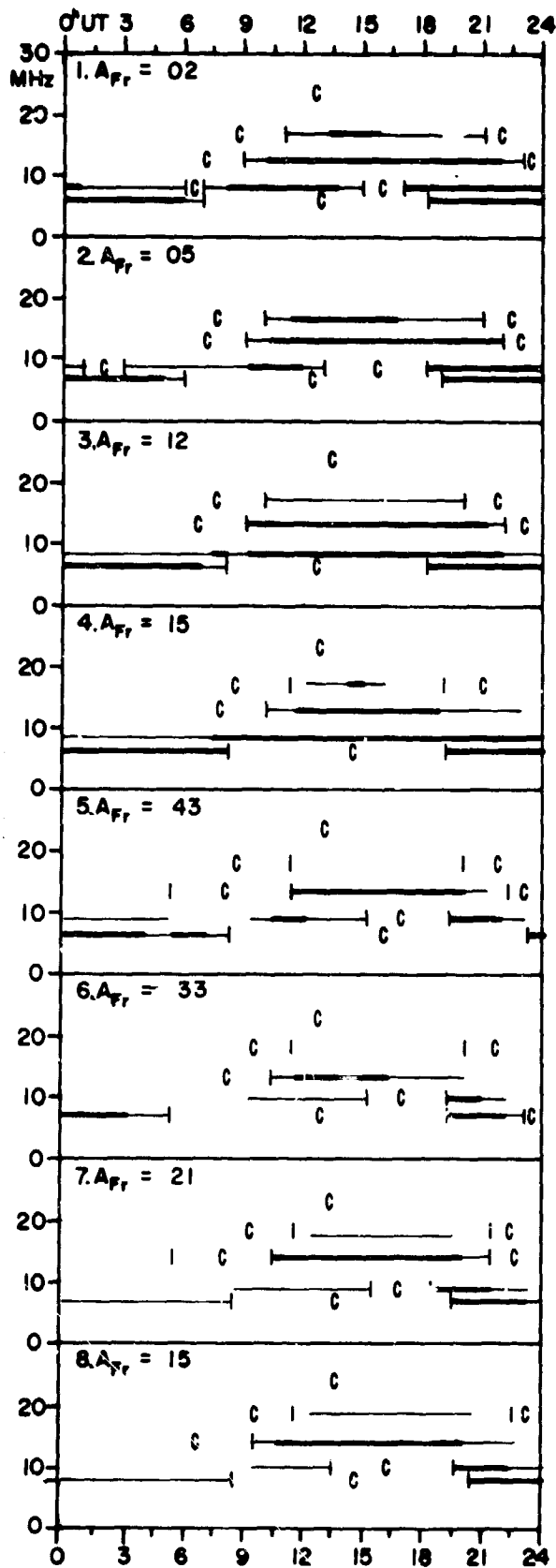
The quality indices vary from 0.0 to 9.9 where 6.0 is normal. Conditions are "normal" (index = 6.0), if they correspond to the average of the preceding 27 days.

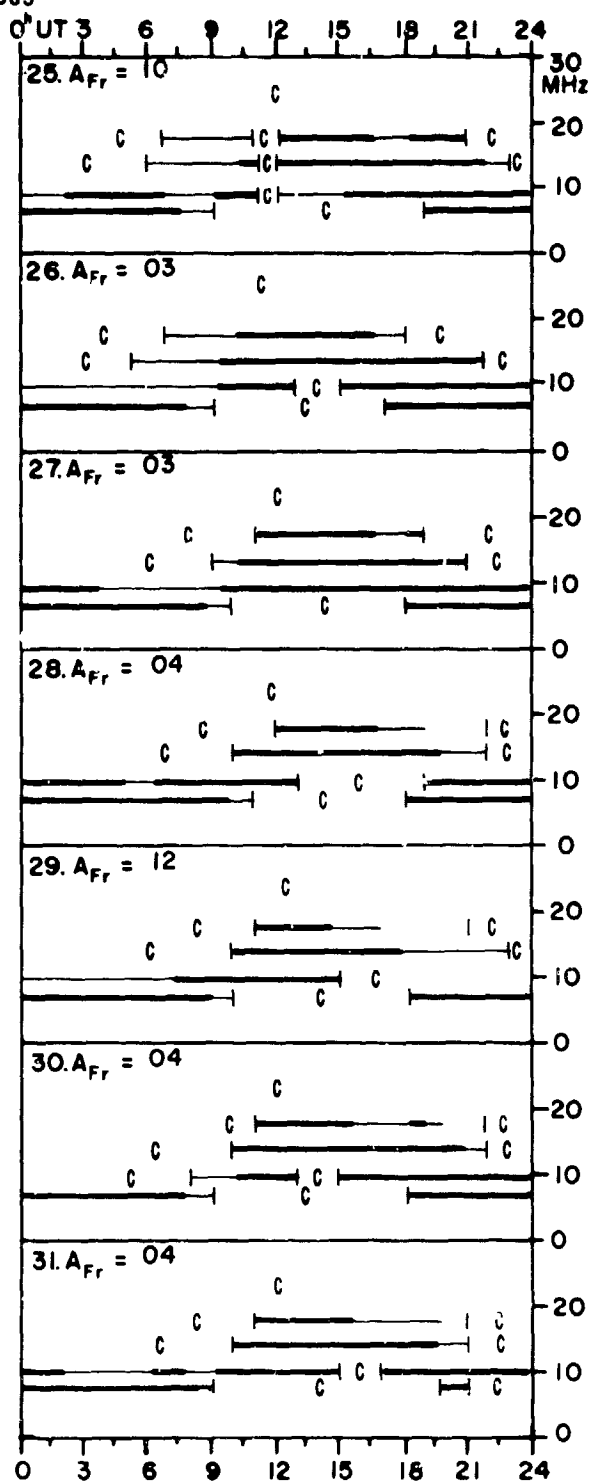
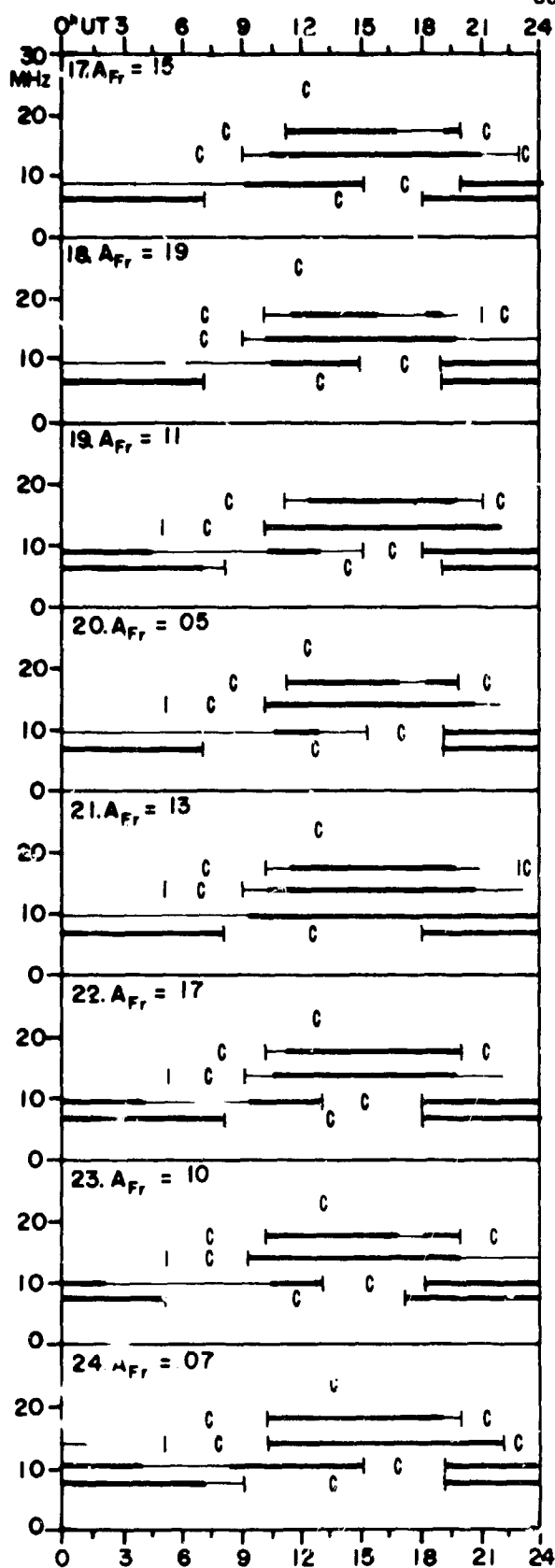
SCALE FOR QUALITY INDICES

0.0 - 1.0 = very poor
 1.1 - 3.0 = poor
 3.1 - 5.0 = fair
 5.1 - 7.0 = normal
 7.1 - 9.0 = good
 9.1 - 9.9 = very good

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TRANSMISSION FREQUENCY RANGES -- NORTH ATLANTIC PATH
OCTOBER 1985



TRANSMISSION FREQUENCY RANGES -- NORTH ATLANTIC PATH
OCTOBER 1985

Field strengths from five frequencies, 6.4, 8.6, 13.0, 17.0 and 22.5 MHz, observed on a Lüchow New York circuit are represented above. Heavy solid lines represent field strengths ≥ -12 dB above $1 \mu\text{V/m}$ (transmitter power reduced to 1 kW). Observed field strengths between -12 dB above $1 \mu\text{V/m}$ and -40 dB above $1 \mu\text{V/m}$ are represented by the fine line.

C O N T E N T S

Prompt Reports

LATE DATA

Number 496 Part I

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80
Late
Sep 85

MAGNETIC STORM SUDDEN COMMENCEMENTS AND SOLAR FLARE EFFECTS
(PRELIMINARY REPORT ON RAPID MAGNETIC VARIATIONS)

SEPTEMBER 1985

Storm Sudden Commencements (ssc)			Solar Flare Effects (sfe)		
Day	Time	Quality: Station Group*	Day	Begin-End	Station(s)
14	0600	A: COI FRD LNP MPO DUM; B: DOB WIT SPT GNA CAO GCK KGL; C: NGK HAD CLF GCK MMB AQU EBR KAK HTY KNY AMS	10	1104-1115	MPO
			14	1246-1300	CLF
			23	0602-0618	MPO
			28	1059-1106	MPO

Reporting Observatories:

SOD DOB NUR WNG WIT NGK HAD BDV CLF GCK MMB AQU EBR COI
SPT FRD KAK HTY KNY LNP GNA MPO CAO AMS CZT KGL DUM

*Three-letter codes identify each observatory.

SOLAR RADIO EMISSION SPECTRAL OBSERVATIONS

81
Late
Jan 85

JANUARY 1985

Day	Observation		Sta	Decimetric Band			Metric Band			Dekametric Band			Spectral Type
	Start (UT)	End (UT)		Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	
05	2010	2307	CULG										
06	0008	0738	CULG										
	2018	2400	CULG										
07	0000	0738	CULG										
	2018	2400	CULG										
08	0000	0739	CULG										
	2039	2400	CULG										
09	0000	0739	CULG										
	2039	2400	CULG										
10	0000	0708	CULG										
	2045	2400	CULG										
11	0000	0739	CULG										
	2040	2400	CULG										
12	0000	0740	CULG										
	2040	2400	CULG										
13	0000	0738	CULG				0137.5		1				11B
	2042	2400	CULG										
14	0000	0741	CULG				0507.5		1				11B
	2041	2400	CULG										
15	0000	0735	CULG										
	2044	2400	CULG										
16	0000	0736	CULG				0038.5	0257.5	1				11N
	2042	2400	CULG				2135.5	2136.0	2				11IG
17	0000	0742	CULG				0001.5	0002.0	1				11IG
			CULG				0128.0	0142.5	1				11IN,U
			CULG				0208.0	0245.0	1				11IN
			CULG				0244.5		2				11IB
			CULG				0249.5		3	0249.5		1	11IB,V
			CULG				0255.5	0256.0	1	0256.0		1	11IG
			CULG				0321.0	0322.0	2				11IG
			CULG				0323.5	0326.0	3	0324.0	0326.0	1	11IG,V
			CULG				0328.0	0328.5	2	0328.0	0328.5	1	11IG,U
			CULG				0618.5	0619.0	2				11IG,V
			CULG				0620.5	0621.5	1				11IG
	2033	2400	CULG										
18	0000	0702	CULG										
	2042	2400	CULG										
19	0000	0742	CULG				0645.5		1				11IG
			CULG				2201.0	2345.5	1				IS
	2043	2400	CULG				2201.5	2207.0	2	2201.5	2207.0	1	11IGG
			CULG				2338.0		1				11IG
20	0000	0710	CULG				0003.0		1				11IB
			CULG				0011.5		1				11IB
			CULG				0014.5	0254.0	1				IS
			CULG				0023.0		1				11IB
			CULG				0043.5		1				11IG
			CULG				0253.5		1				11IB
			CULG				0347.0		1				11IB
			CULG				0532.5		1				11IB
			CULG				0610.0	0709.5	1				11IN
	2042	2400	CULG				2045.0	2048.0	1				11
			CULG				2048.0	2315.0	1				IS,C
			CULG				2048.0	2400.0	1				11IS
			CULG				2056.5	2057.0	3				11IB
			CULG				2158.5		1				11IB
			CULG	2202.0	2348.0	1	2315.0	2400.0	1				11N

SOLAR RADIO EMISSION SPECTRAL OBSERVATIONS

JANUARY 1985

[illegible]

[illegible]

84
Late
Feb 85

SOLAR RADIO EMISSION SPECTRAL OBSERVATIONS

FEBRUARY 1985

Observation				Decimetric Band			Metric Band			Dekametric Band			Spectral Type
Day	Start (UT)	End (UT)	Sta	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	
24	2055	2400	CULG										
25	0000	0510	CULG										
	2050	2400	CULG										
26	0000	0020	CULG										
27	2130	2400	CULG										
28	0000	0744	CULG										
	2045	2400	CULG										

The symbols used under the column heading SPECTRAL TYPE have the following definitions:

- | | |
|--|-------------------------------|
| B = Single burst | RS = Reverse slope burst |
| G = Small group (< 10) of bursts | DP = Drifting pairs |
| GG = Large group (> 10) of burst | DC = Drifting Chains |
| C = Underlying continuum (particularly with Type I) | H = Herringbone |
| S = Storm in the sense of intermittent but apparently connected activity | W = Weak |
| N = Intermittent activity in this period | P = Pulsations |
| U = U-shaped burst of Type III | CONT = Continuum |
| | UNCLF = Unclassified activity |
| | DCIM = Fast drift |

SOLAR RADIO EMISSION SPECTRAL OBSERVATIONS

85
Late
Mar 85

MARCH 1985

Observation				Decimetric Band			Metric Band			Dekametric Band			Spectral Type
Day	Start (UT)	End (UT)	Sta	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	
01	0000	0700	CULG										
	2026	2400	CULG										
02	0000	0711	CULG										
	2147	2400	CULG										
03	0000	0744	CULG										
	2150	2400	CULG										
04	0000	0743	CULG										
	2045	2400	CULG										
05	0000	0743	CULG										
	2043	2400	CULG										
06	0000	0743	CULG										
	2043	2400	CULG										
07	0000	0742	CULG										
	2047	2400	CULG										
08	0000	0742	CULG										
	2042	2400	CULG										
09	0000	0724	CULG										
	2045	2400	CULG										
10	0000	0742	CULG										
	2042	2400	CULG										
11	0000	0742	CULG										
	2042	2400	CULG										
12	0000	0742	CULG										
	2042	2400	CULG										
13	0000	0741	CULG										
	2041	2400	CULG										
14	0000	0700	CULG										
	2045	2400	CULG										
15	0000	0740	CULG										
	2040	2400	CULG										
16	0000	0749	CULG										
	2341	2400	CULG										
18	0000	0740	CULG				0155.0		1				111B
	2040	2400	CULG										
19	0000	0740	CULG				0729.0		1				111B
	2040	2400	CULG				2202.0	2202.5	1				111B
20	0000	0738	CULG				0731.0	0733.0	2				111G
21	0000	0739	CULG				0429.5		1				111B
			CULG				0729.5		1				111B
	2040	2400	CULG										
	2039	2400	CULG				2119.0		1				111B
			CULG	2225.5	2226.5	1	2225.0	2228.0	3	2225.5	2227.5	1	111G,V
			CULG				2232.5	2239.5	1				111G,V
			CULG				2309.5	2311.5	2				111G,V
			CULG				2334.5		1				111G
22	0000	0738	CULG				2104.5	2105.0	1				111B
	2039	2400	CULG										
23	0000	0738	CULG				0118.5	0119.5	2	0118.5	0119.0	1	111G
			CULG				0313.0	0314.0	2				111G,V
			CULG				0533.0	0533.5	2				111B,V

86
Late
Mar 85

SOLAR RADIO EMISSION SPECTRAL OBSERVATIONS

MARCH 1985

Observation				Decimetric Band			Metric Band			Dekametric Band			Spectral Type
Day	Start (UT)	End (UT)	Sta	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	
23	2038	2400	CULG				2058.5		1				111B
24	0000	0738	CULG										
	2038	2400	CULG										
25	0000	0423	CULG										
	2220	2400	CULG										
26	0000	0737	CULG				0630.0		1				111B
	2250	2400	CULG										
27	0000	0735	CULG										
	2151	2400	CULG										
28	0000	0740	CULG										
	2237	2400	CULG										
29	0000	0707	CULG										
	2036	2400	CULG										
30	0000	0736	CULG										
	2036	2400	CULG										
31	0000	0735	CULG										
	2035	2400	CULG										

The symbols used under the column heading SPECTRAL TYPE have the following definitions:

B = Single burst
G = Small group (< 10) of bursts
GG = Large group (> 10) of burst
C = Underlying continuum (particularly with Type 1)
S = Storm in the sense of intermittent but
apparently connected activity
N = Intermittent activity in this period
U = U-shaped burst of Type III

RS = Reverse slope burst
DP = Drifting pairs
DC = Drifting Chains
H = Herringbone
W = Weak
P = Pulsations
CONT = Continuum
UNCLF = Unclassified activity
DCIM = Fast drift

SOLAR RADIO EMISSION SPECTRAL OBSERVATIONS

87
Late
Apr 85

APRIL 1985

Day	Observation			Decimetric Band			Metric Band			Dekametric Band			Spectral Type
	Start (UT)	End (UT)	Sta	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	
01	0000	0350	CULG										
	2046	2400	CULG										
02	0000	0735	CULG										
	2035	2400	CULG										
03	0000	0735	CULG				0611.5		1				111B
	2035	2400	CULG										
04	0000	0734	CULG				0401.5		1				111B
	2035	2400	CULG										
05	0000	0734	CULG				0456.0	0456.5	1				111G
	2035	2400	CULG										
06	0000	0645	CULG										
	2036	2400	CULG										
07	0000	0733	CULG										
	2034	2400	CULG										
08	0000	0733	CULG										
	2033	2400	CULG										
09	0000	0733	CULG										
	2033	2400	CULG										
10	0000	0733	CULG										
	2033	2400	CULG										
11	0000	0710	CULG										
	2235	2400	CULG										
12	0000	0732	CULG										
	2032	2400	CULG										
13	0000	0730	CULG										
	2032	2400	CULG										
14	0000	0732	CULG										
	2032	2400	CULG										
15	0000	0732	CULG										
	2032	2400	CULG										
16	0150	2400	CULG										
17	0000	0731	CULG										
	2031	2400	CULG										
18	0000	0731	CULG										
	2031	2400	CULG										
19	0000	0731	CULG										
	0031	2400	CULG										
20	0000	0731	CULG										
	2031	2400	CULG										
21	0000	0520	CULG										
	2032	2400	CULG										
22	0000	0730	CULG										
	2030	2400	CULG	2207.0	2207.5	1							111G
			CULG	2332.0	2356.0	1							IN
23	0000	0730	CULG	0008.0	0716.5	1							IN
			CULG				0327.5	0328.0	2				111B
	2030	2400	CULG	2030.0	2400.0	1	2030.0	2233.0	3				IS,C,DC
			CULG	2119.0	2120.5	1							DCIM
			CULG	2121.5	2126.0								DCIM

SOLAR RADIO EMISSION SPECTRAL OBSERVATIONS

APRIL 1985

Observation			Decimetric Band			Metric Band			Decametric Band			Spectral Type	
Day	Start (UT)	End (UT)	Sta	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)		Int (1-3)
23			CULG				2133.0	2134.0	2				IIIG
			CULG	2143.0	2143.5	1							DCIM
			CULG				2200.0	2400.0	1				IIIS
			CULG				2205.5	2206.0	2				IIIG
			CULG	2224.0	2225.5	1							DCIM
			CULG				2227.5	2228.0	2				IIIB
			CULG				2233.0	2400.0	2				IS,C,DC
			CULG				2310.5		2				IIIB
			CULG	2345.0	2347.0	2							CONT
			CULG				2348.0	2348.5	2	2348.0		1	IIIG
24	0000	0730	CULG				0000.0	0508.5	1				IIIS
			CULG	0000.0	0720.5	1	0000.0	0513.0	1				IS,C,DC
			CULG				0018.0	0047.0	2				IIIN
			CULG				0049.5	0051.0	3	0049.5	0050.5	2	IIIG,V
			CULG				0208.0		2				IIIB
			CULG				0217.5	0218.0	2				IIIB
			CULG				0249.0	0249.5	2				IIIB
			CULG	0315.0	0316.0	1							CONT
			CULG				0358.5	0359.0	2				IIIB,U
			CULG				0513.0	0607.5	2				IIIS
			CULG				0513.0	0615.0	2				IS,C,DC
			CULG				0615.0	0730.0					IIIS,W
			CULG				0615.0	0730.0					IS,W
	2030	2400	CULG				2035.0	2400.0	1				IS,C,DC
			CULG				2040.0	2103.0	1				IIIS
			CULG				2048.5	2049.0	3				IIIG
			CULG				2049.5	2050.0	2				IIIG
			CULG				2050.0	2051.0	3				IIIG
			CULG	2050.0	2400.0	1							IN
			CULG				2103.0	2400.0	2				IIIS
			CULG				2105.0	2358.5	2				IIIN
			CULG				2110.0	2116.0	2				IS,C,DC
			CULG				2124.0	2128.5	2				IS,C,DC
			CULG				2132.5	2346.0	1				RSDP,N
			CULG	2201.0	0204.5	2							CONT
25	0000	0729	CULG				0000.0	0030.0	2				IIIS
			CULG	0000.0	0710.0	1							IN
			CULG				0000.0	0721.5	1				IS,C,DC
			CULG				0030.0	0403.5	2	0056.0	0216.0	1	IIIN
			CULG				0030.0	0416.5	1				IIIS
			CULG				0134.5	0631.5	1				RSDP,N
			CULG				0453.0	0653.5	1				IIIN
	2030	2400	CULG				2036.0	2400.0	1				IS,C,DC
			CULG				2053.5	2400.0	1				IIIS
			CULG	2055.5	2344.5	1							IIIN
			CULG				2111.5	2400.0	2				IIIN
			CULG				2240.5	2316.5	1				RSDP,N
26	0000	0627	CULG				0000.0	0409.5					IIIS,W
			CULG				0000.0	0627.0	1				IS,C,DC
			CULG	0013.5	0335.0	1	0031.0	0627.0	1				IIIN
			CULG	0017.0	0546.5	1							IN
			CULG	0057.0	0057.5	1	0057.0	0057.5	2				IIIG
	0030	2400	CULG				2030.0	2346.0	3				IS,C,DC
			CULG				2051.0	2349.0	3				IIIS
			CULG				2346.0	2400.0	2				IS,C,DC
			CULG				2349.0	2400.0	2				IIIS
27	0000	0724	CULG				0000.0	0520.0	2				IS,C,DC
			CULG				0003.0	0645.0	1				IIIS
			CULG				0015.0	0549.0	2				IIIN
			CULG				0018.0	0019.5	3	0018.5	0019.0	2	IIIG
			CULG				0251.5	0252.0	3	0251.5	0252.0	1	IIIG
			CULG				0301.5		3	0301.5		1	IIIB
			CULG				0520.0	0724.0	1				IS,C,DC
			CULG				0530.5	0531.5	3				IIIG
	2029	2400	CULG				2039.5	2349.0					IS,W
			CULG				2046.5	2345.0	1				IIIN
			CULG				2059.5	2100.0	2				IIIG

SOLAR RADIO EMISSION SPECTRAL OBSERVATIONS

89
Late
Apr 85

APRIL 1985

Observation			Decimetric Band			Metric Band			Dekametric Band			Spectral Type
Start	End	Sta	Start	End	Int	Start	End	Int	Start	End	Int	
Day (UT)	(UT)		(UT)	(UT)	(1-3)	(UT)	(UT)	(1-3)	(UT)	(UT)	(1-3)	
27		CULG	2113.5	2114.5	1	2113.0	2115.0	3				IIIGG,V
		CULG				2139.0	2140.0	3				IIIG,U,V
		CULG				2140.0	2140.5	3				IIIG
		CULG				2142.0	2144.5	3	2142.5	2143.0	2	IIIGG,U,V
		CULG				2228.5	2231.5	3	2228.5	2331.5	2	IIIG,V
		CULG				2254.0	2255.5	3	2254.0	2256.0	2	IIIG
		CULG				2320.0	2320.5	3	2320.0	2320.5	2	IIIB
		CULG				2336.5	2337.0	2	2336.5	2337.5	2	IIIG,V
		CULG				2339.0	2339.5	2	2339.0	2339.5	1	IIIG
28	0000 0729	CULG				0020.5		1				IIIB
		CULG				0056.0	0109.0	1				IN
		CULG				0516.5	0517.0	2				IIIG
		CULG				0604.5	0605.0	2				IIIG
		CULG				0616.5	0657.5	1				IIIN
		CULG				0651.5	0652.0	2				IIIG
	2029 2400	CULG	2301.0	2357.0	1							IN
29	0000 0729	CULG	0007.5	0013.0	1							IN
		CULG				0021.5		1				IIIB
		CULG				0102.5		1				IIIB
		CULG				0234.0	0517.0	1				IN
		CULG	0512.0		1							IIIB
	2029 2400	CULG				2124.5		1				IIIB
30	0700 0729	CULG										
	2029 2400	CULG										

The symbols used under the column heading SPECTRAL TYPE have the following definitions:

- | | |
|---|-------------------------------|
| B = Single burst | RS = Reverse slope burst |
| G = Small group (< 10) of bursts | DP = Drifting pairs |
| GG = Large group (> 10) of burst | DC = Drifting Chains |
| C = Underlying continuum (particularly with Type I) | H = Herringbone |
| S = Storm in the sense of intermittent but | W = Weak |
| apparently connected activity | P = Pulsations |
| N = Intermittent activity in this period | CONT = Continuum |
| U = U-shaped burst of Type III | UNCLF = Unclassified activity |
| | DCIM = Fast drift |

90
Late
Apr 83

CALCIUM PLAGE REGIONS
(ORDERED BY CENTRAL MERIDIAN PASSAGE DATE)

APRIL 1983

Calcium Plage Region	Sta	Observation Time		Lat	CMD	CMP Mo Day	Intensity	Corrected Area (10-6 Hemi)	NOAA #1	USAF #2	Sunspot Groups #3
18819	BIGB	03 25	1725	S17	E85	04 1.2	2.5	0400			
18819	BIGB	03 26	1740	S18	E75	04 1.4	2.5	0800			
18819	BIGB	03 29	1643	S17	E41	04 1.8	3.0	1700			
18819	BIGB	03 30	1700	S16	E29	04 1.9	3.0	1850			
18819	BIGB	03 31	1647	S16	E17	04 2.0	3.0	1900			
18819	BIGB	04 01	1720	S17	E04	04 2.0	3.5	2700			
18819	BIGB	04 02	1745	S15	W11	04 1.9	3.5	2700			
18819	BIGB	04 03	1645	S16	W24	04 1.9	3.5	2700			
18819	BIGB	04 04	1750	S16	W38	04 1.9	3.5	2700			
18820	BIGB	03 26	1740	S25	E83	04 2.2	1.0	0650	4129		
18820	BIGB	03 29	1643	S26	E50	04 2.6	2.5	1600	4129		
18820	BIGB	03 30	1700	S27	E36	04 2.5	2.5	1700	4129		
18820	BIGB	03 31	1647	S27	E24	04 2.6	2.5	1750	4129		
18820	BIGB	04 01	1720	S27	E11	04 2.6	2.5	2000	4129		
18820	BIGB	04 02	1745	S25	W05	04 2.3	2.5	2000	4129		
18820	BIGB	04 03	1645	S27	W16	04 2.4	2.5	2000	4129		
18820	BIGB	04 04	1750	S27	W31	04 2.3	2.0	2000	4129		
18828	BIGB	04 03	1645	S11	W14	04 2.6	2.0	0150	4136		
18828	BIGB	04 04	1750	S11	W31	04 2.4	2.0	0225	4136		
18822	BIGB	03 30	1700	S11	E40	04 2.7	1.5	0500	4133		
18822	BIGB	03 31	1647	S14	E33	04 3.2	2.5	0575	4133		
18822	BIGB	04 01	1720	S14	E19	04 3.1	2.5	0650	4133		
18822	BIGB	04 02	1745	S12	E05	04 3.1	2.0	0700	4133		
18822	BIGB	04 03	1645	S12	W07	04 3.2	2.5	0700	4133		
18822	BIGB	04 04	1750	S13	W23	04 3.0	2.5	0700	4133		
18825	BIGB	04 02	1745	S11	E78	04 8.6	2.5	0500	4137		
18825	BIGB	04 03	1645	S11	E62	04 8.4	2.5	0400	4137		
18825	BIGB	04 04	1750	S10	E45	04 8.1	2.5	0375	4137		
18825	BIGB	04 09	1825	S10	W23	04 8.0	3.0	1500	4137		
18826	BIGB	04 02	1745	S13	E87	04 9.3	2.0	0300	4135		
18826	BIGB	04 03	1645	S13	E69	04 8.9	3.5	0550	4135		
18826	BIGB	04 04	1750	S13	E56	04 9.0	3.5	0700	4135		
18826	BIGB	04 09	1825	S13	W13	04 8.8	3.0	0800	4135		
18826	BIGB	04 14	1830	S10	W85	04 8.4	1.5	0700	4135		
18827	BIGB	04 04	1750	S15	E85	04 11.2	2.0	0600	4138		
18827	BIGB	04 09	1825	S16	E17	04 11.0	2.5	3200	4138		
18827	BIGB	04 14	1830	S15	W47	04 11.2	2.0	2700	4138		
18827	BIGB	04 15		S15	W60	04 11.3	3.0	2150	4138		
18827	BIGB	04 16		S16	W74	04 11.2	2.0	2100	4138		
18830	BIGB	04 09	1825	S11	E41	04 12.8	2.5	1100	4140	4143	
18830	BIGB	04 14	1830	S10	W29	04 12.6	2.5	1250	4140	4143	
18830	BIGB	04 15	1925	S10	W42	04 12.6	3.5	1200	4140	4143	
18830	BIGB	04 16	1845	S10	W55	04 12.6	2.5	1200	4140	4143	
18829	BIGB	04 16	1845	S29	W25	04 14.8	4.0	0550	4148		
18829	BIGB	04 17	1955	S29	W39	04 14.8	3.5	1200	4148		
18831	BIGB	04 09	1825	S15	E70	04 15.1	2.5	1300			
18831	BIGB	04 14	1830	S13	E01	04 14.8	2.5	1650			
18831	BIGB	04 15	1925	S11	W14	04 14.7	2.5	1800			
18831	BIGB	04 16	1845	S11	W26	04 14.8	2.0	1800			
18831	BIGB	04 17	1955	S11	W40	04 14.8	2.0	1700			
18832	BIGB	04 09	1825	S25	E70	04 15.2	1.5	0350			
18832	BIGB	04 14	1830	S27	E02	04 14.9	2.5	0525			
18832	BIGB	04 15	1925	S27	W12	04 14.9	2.0	0550			
18832	BIGB	04 16	1845	S25	W25	04 14.8	2.0	0400			
18832	BIGB	04 17	1955	S23	W37	04 15.0	1.0	0300			
18833	BIGB	04 14	1830	S10	E18	04 16.1	3.0	1150	4142		
18833	BIGB	04 15	1925	S10	E06	04 16.2	3.0	1000	4142		
18833	BIGB	04 16	1845	S10	W08	04 16.2	3.0	0900	4142		
18833	BIGB	04 17	1955	S08	W22	04 16.2	2.5	0850	4142		
18834	BIGB	04 14	1830	S08	E27	04 16.8	2.5	1050	4145		

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CALCIUM PLAGE REGIONS
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Calcium Plage Region	Sta	Observation Time Mo Day (UT)	Lat CMD	CMP Mo Day	Intensity	Corrected Area (10-6 Hemi)	NOAA/USAF #1	Sunspot #2	Groups #3
18834	BIGB	04 15 1925	S08 E15	04 16.9	3.0	1050	4145		
18834	BIGB	04 16 1845	S07 E02	04 16.9	2.5	1000	4145		
18834	BIGB	04 17 1955	S07 W12	04 16.9	3.0	1000	4145		
18836	BIGB	04 14 1830	S14 E45	04 18.2	2.5	1750	4149		
18836	BIGB	04 15 1925	S14 E30	04 18.1	3.0	1900	4149		
18836	BIGB	04 16 1845	S14 E18	04 18.1	2.5	1850	4149		
18836	BIGB	04 17 1955	S12 E03	04 18.0	2.5	2000	4149		
18836	BIGB	04 23 2005	S12 W82	04 17.6	2.5	1800	4149		
18835	BIGB	04 14 1830	N22 E45	04 18.2	4.0	2500	4144		
18835	BIGB	04 15 1925	N22 E32	04 18.3	4.0	3100	4144		
18835	BIGB	04 16 1845	N21 E19	04 18.2	3.5	2800	4144		
18835	BIGB	04 17 1955	N23 E05	04 18.2	3.0	2000	4144		
18835	BIGB	04 23 2005	N23 W78	04 17.8	2.0	1900	4144		
18837	BIGB	04 14 1830	S15 E62	04 19.5	2.0	0900	4153		
18837	BIGB	04 15 1925	S15 E47	04 19.4	2.0	1500	4153		
18837	BIGB	04 16 1845	S15 E36	04 19.5	2.0	1300	4153		
18837	BIGB	04 17 1955	S15 E21	04 19.4	2.0	1000	4153		
18837	BIGB	04 23 2005	S13 W61	04 19.2	1.5	0600	4153		
18840	BIGB	04 15 1925	S31 E55	04 20.1	1.0	0175			
18840	BIGB	04 16 1845	S30 E42	04 20.1	2.0	0150			
18840	BIGB	04 17 1955	S29 E27	04 19.9	1.0	0150			
18839	BIGB	04 14 1830	N11 E75	04 20.4	1.5	0600	4146		
18839	BIGB	04 15 1925	N12 E62	04 20.5	2.5	0400	4146		
18839	BIGB	04 16 1845	N12 E49	04 20.5	1.0	0700	4146		
18839	BIGB	04 17 1955	N12 E36	04 20.5	2.0	0550	4146		
18838	BIGB	04 14 1830	N06 E80	04 20.7	2.5	0800	4146A		
18838	BIGB	04 15 1925	N06 E70	04 21.0	3.0	1800	4146A		
18838	BIGB	04 16 1845	N06 E55	04 20.9	3.0	1800	4146A		
18838	BIGB	04 17 1955	N06 E42	04 21.0	3.0	1900	4146A		
18838	BIGB	04 23 2005	N07 W42	04 20.7	3.0	2000	4146A		
18841	BIGB	04 16 1845	N10 E75	04 22.4	1.0	0200	4151		
18841	BIGB	04 17 1955	N10 E59	04 22.3	1.0	0125	4151		
18841	BIGB	04 23 2005	N12 W26	04 21.5	3.5	1700	4151		
18841	BIGB	04 27 2340	N13 W80	04 21.9	1.0	0250	4151		
18842	BIGB	04 17 1955	S20 E72	04 23.3	1.0	1200	4152		
18842	BIGB	04 23 2005	S23 W10	04 23.1	2.5	1000	4152		
18842	BIGB	04 27 2340	S23 W67	04 22.8	1.5	0200	4152		
18842	BIGB	04 28 1900	S22 W80	04 22.6	1.0	0075	4152		
18843	BIGB	04 17 1955	S15 E88	04 24.5	2.5	1700			
18843	BIGB	04 23 2005	S15 E04	04 24.1	2.0	1000			
18843	BIGB	04 27 2340	S16 W51	04 24.1	2.0	0850			
18843	BIGB	04 28 1900	S14 W62	04 24.1	1.5	0750			
18849	BIGB	04 23 2005	N30 E05	04 24.2	3.0	0550			
18855	BIGB	04 27 2340	S26 W40	04 24.9	1.0	0225			
18855	BIGB	04 28 1900	S25 W53	04 24.7	1.0	0475			
18844	BIGB	04 23 2005	S14 E21	04 25.4	3.5	3000	4150	4150A	
18844	BIGB	04 27 2340	S14 W34	04 25.4	3.5	2700	4150	4150A	
18844	BIGB	04 28 1900	S13 W44	04 25.5	3.0	2500	4150	4150A	
18851	BIGB	04 27 2340	N08 W35	04 25.4	1.0	0075	4158		
18846	BIGB	04 23 2005	S14 E42	04 27.0	2.0	0550			
18846	BIGB	04 27 2340	S13 W16	04 26.8	2.0	0600			
18846	BIGB	04 28 1900	S12 W26	04 26.8	2.0	0600			
18846	BIGB	05 02 1625	S13 W78	04 26.9	1.0	0250			
18845	BIGB	04 23 2005	N17 E44	04 27.2	3.5	0900	4155		
18845	BIGB	04 27 2340	N17 W12	04 27.1	2.5	0800	4155		
18845	BIGB	04 28 1900	N18 W23	04 27.0	2.0	0700	4155		

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CALCIUM PLAGE REGIONS
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APRIL 1983

Calcium Plage Region	Sta	Observation Time Mo Day (UT)			Lat CMD	CMP Mo Day	Intensity	Corrected Area (10 ⁻⁶ Hemi)	NOAA/USAF #1	Sunspot #2	Groups #3
18845	BIGB	05	J2	1625	N17 W76	04 27.0	1.0	0350	4155		
18848	BIGB	04	23	2005	N17 E60	04 28.4	1.0	0300	4159		
18848	BIGB	04	27	2340	N13 E05	04 28.4	3.0	0600	4159		
18848	BIGB	04	28	1900	N15 W06	04 28.3	3.0	0850	4159		
18848	BIGB	05	02	1625	N14 W58	04 28.4	3.0	1000	4159		
18848	BIGB	05	03	1800	N14 W74	04 28.2	3.5	0750	4159		
18848	BIGB	05	04	1626	N14 W80	04 28.7	1.0	0400	4159		
18852	BIGB	04	27	2340	N18 E05	04 28.4	3.0	0650	4160		
18852	BIGB	04	28	1900	N20 W06	04 28.3	3.0	0750	4160		
18852	BIGB	05	02	1625	N19 W59	04 28.3	3.5	0750	4160		
18852	BIGB	05	03	1800	N19 W73	04 28.3	3.5	0600	4160		
18852	BIGB	05	04	1626	N21 W80	04 28.6	1.0	0200	4160		
18847	BIGB	04	23	2005	S17 E65	04 28.8	3.5	7000	4154	4156	4164
18847	BIGB	04	27	2340	S17 E08	04 28.6	3.5	5300	4154	4156	4164
18847	BIGB	04	28	1900	S16 W04	04 28.5	3.5	4800	4154	4156	4164
18847	BIGB	05	02	1625	S18 W50	04 29.0	3.0	3700	4154	4156	4164
18847	BIGB	05	03	1800	S19 W68	04 28.7	3.0	4700	4154	4156	4164
18847	BIGB	05	04	1626	S20 W78	04 28.8	3.0	4700	4154	4156	4164
18847	BIGB	05	05	1719	S21 W90	04 29.7	1.0	0800	4154	4156	4164
18857	BIGB	04	27	2340	S17 E23	04 29.7	3.5	0700	4162		
18857	BIGB	04	28	1900	S15 E11	04 29.6	3.5	1300	4162		
18857	BIGB	05	02	1625	S15 W39	04 29.8	3.5	1200	4162		
18857	BIGB	05	03	1800	S15 W55	04 29.7	3.5	1700	4162		
18857	BIGB	05	04	1626	S15 W66	04 29.8	3.5	1700	4162		
18857	BIGB	05	05	1719	S14 W76	04 30.0	3.0	1100	4162		
18858	BIGB	04	27	2340	S18 E33	04 30.5	2.5	0175			
18858	BIGB	04	28	1900	S18 E20	04 30.3	2.5	0450			
18858	BIGB	05	02	1625	S17 W30	04 30.4	1.5	0350			
18858	BIGB	05	03	1800	S16 W45	04 30.3	1.5	1100			
18850	BIGB	04	23	2005	S05 E85	04 30.2	3.0	0250	4157		
18850	BIGB	04	27	2340	S04 E35	04 30.6	3.0	1500	4157		
18850	BIGB	04	28	1900	S04 E23	04 30.5	3.0	1600	4157		
18850	BIGB	05	02	1625	S04 W29	04 30.5	3.5	2400	4157		
18850	BIGB	05	03	1800	S04 W46	04 30.3	3.5	2000	4157		
18850	BIGB	05	04	1626	S04 W58	04 30.3	3.5	2000	4157		
18850	BIGB	05	05	1719	S04 W71	04 30.4	3.5	2000	4157		
18850	BIGB	05	06	1820	S04 W79	04 30.8	1.5	0800	4157		

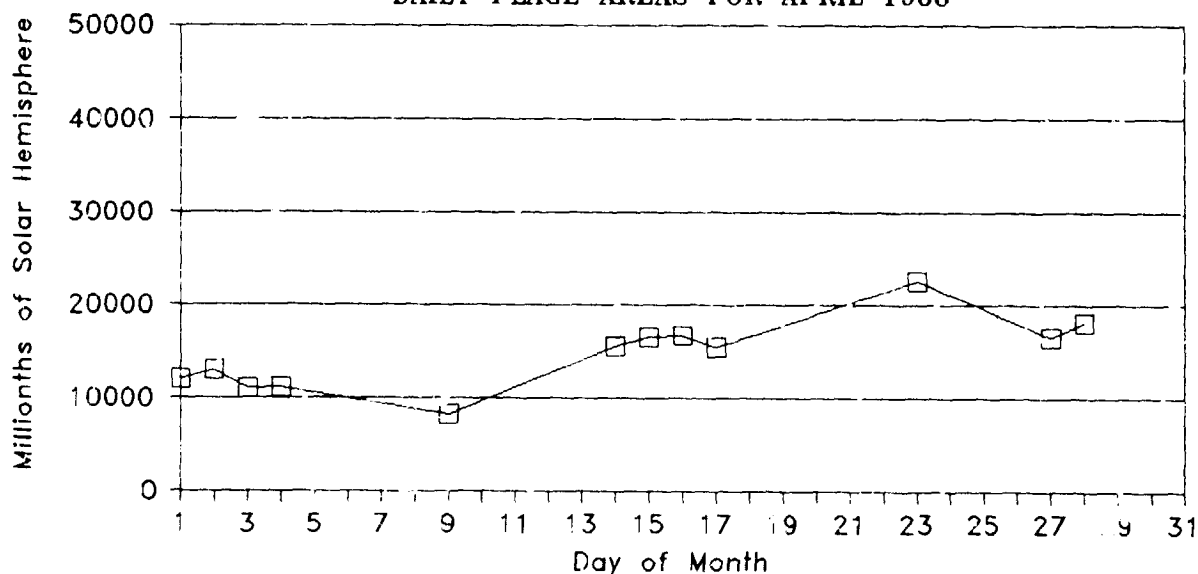
DAILY PLAGE SUMMARIES

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Apr 83

APRIL 1983

Day	Sta	Plage Index	Plage Count	Smallest Plage (Millionths of Solar Hemisphere)	Largest Plage (Millionths of Solar Hemisphere)	Total Area	Smallest Intensity	Largest Intensity
01	BIGB	27.7	11	325	2700	12030	1.0	3.5
02	BIGB	25.2	12	300	2700	12995	1.0	3.5
03	BIGB	22.9	11	150	2700	11025	1.0	3.5
04	BIGB	18.2	10	225	2700	11125	1.0	3.5
05	No Observations This Day							
06	No Observations This Day							
07	No Observations This Day							
08	No Observations This Day							
09	BIGB	19.7	6	350	3200	8250	1.5	3.5
10	No Observations This Day							
11	No Observations This Day							
12	No Observations This Day							
13	No Observations This Day							
14	BIGB	29.3	12	525	2700	15575	1.5	4.0
15	BIGB	35.7	12	175	3100	16625	1.0	4.0
16	BIGB	31.8	14	150	2800	16750	1.0	4.0
17	BIGB	27.6	14	125	2000	15475	1.0	3.5
18	No Observations This Day							
19	No Observations This Day							
20	No Observations This Day							
21	No Observations This Day							
22	No Observations This Day							
23	BIGB	38.5	14	250	7000	22550	1.0	3.5
24	No Observations This Day							
25	No Observations This Day							
26	No Observations This Day							
27	BIGB	41.2	18	75	5300	16600	1.0	3.5
28	BIGB	42.4	16	75	4800	18100	1.0	3.5
29	No Observations This Day							
30	No Observations This Day							
31	No Observations This Day							

DAILY PLAGE AREAS FOR APRIL 1983



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CALCIUM PLAGE REGIONS
(ORDERED BY CENTRAL MERIDIAN PASSAGE DATE)

MAY 1983

Calcium Plage Region	Sta	Observation Time Mo Day (UT)	Lat CMD	CMP Mo Day	Intensity	Corrected Area (10-6 Hemi)	NOAA/USAF #1	Sunspot #2	Groups #3
18853	BIGB	04 27 2340	S14 E41	05 1.1	2.5	0500			
18853	BIGB	04 28 1900	S15 E28	04 30.9	2.5	0550			
18853	BIGB	05 02 1625	S13 W22	05 1.0	1.5	0500			
18853	BIGB	05 03 1800	S13 W38	04 30.9	1.0	0275			
18854	BIGB	04 27 2340	S18 E51	05 1.9	1.5	0175			
18854	BIGB	04 28 1900	S18 E39	05 1.8	1.5	0400			
18854	BIGB	05 02 1625	S18 W13	05 1.7	1.0	0300			
18854	BIGB	05 03 1800	S18 W26	05 1.8	1.0	0275			
18861	BIGB	05 02 1625	S04 W13	05 1.7	1.0	0125			
18856	BIGB	04 27 2340	S11 E62	05 2.6	2.5	0900			
18856	BIGB	04 28 1900	S09 E48	05 2.4	2.5	1100			
18856	BIGB	05 02 1625	S09 W02	05 2.5	2.5	1300			
18856	BIGB	05 03 1800	S08 W18	05 2.4	2.5	1400			
18856	BIGB	05 04 1626	S08 W30	05 2.4	2.5	1400			
18856	BIGB	05 05 1719	S07 W44	05 2.4	3.0	1400			
18856	BIGB	05 06 1820	S08 W58	05 2.4	2.5	1000			
18856	BIGB	05 07 1720	S07 W70	05 2.5	1.0	1000			
18862	BIGB	05 02 1625	N09 E02	05 2.8	2.0	0175			
18862	BIGB	05 03 1800	N10 W15	05 2.6	1.5	0250			
18862	BIGB	05 04 1626	N09 W27	05 2.6	1.0	0350			
18862	BIGB	05 05 1719	N11 W41	05 2.6	2.5	0300			
18862	BIGB	05 06 1820	N10 W55	05 2.6	2.0	0150			
18862	BIGB	05 07 1720	N10 W68	05 2.6	1.0	0150			
18859	BIGB	04 27 2340	S08 E85	05 4.3	1.0	0400	4163		
18859	BIGB	04 28 1900	S09 E73	05 4.3	1.5	1200	4163		
18859	BIGB	05 02 1625	S09 E20	05 4.2	3.0	1200	4163		
18859	BIGB	05 03 1800	S07 E06	05 4.2	3.0	1200	4163		
18859	BIGB	05 04 1626	S07 W06	05 4.2	3.0	1300	4163		
18859	BIGB	05 05 1719	S07 W20	05 4.2	3.0	1200	4163		
18859	BIGB	05 06 1820	S07 W35	05 4.1	3.0	1200	4163		
18859	BIGB	05 07 1720	S07 W49	05 4.0	3.0	1200	4163		
18859	BIGB	05 09 1830	S08 W75	05 4.1	1.0	0700	4163		
18865	BIGB	05 03 1800	N15 E08	05 4.3	2.0	0475	4167		
18865	BIGB	05 04 1626	N15 W04	05 4.4	2.5	1000	4167		
18865	BIGB	05 05 1719	N15 W18	05 4.3	3.0	1000	4167		
18865	BIGB	05 06 1820	N15 W32	05 4.3	3.0	0850	4167		
18865	BIGB	05 07 1720	N15 W46	05 4.2	3.5	0900	4167		
18865	BIGB	05 09 1830	N14 W70	05 4.5	3.0	1300	4167		
18860	BIGB	05 02 1625	S11 E35	05 5.3	3.5	2850	4165	4170	
18860	BIGB	05 03 1800	S11 E21	05 5.3	3.5	3200	4165	4170	
18860	BIGB	05 04 1626	S11 E08	05 5.3	3.5	3200	4165	4170	
18860	BIGB	05 05 1719	S11 W05	05 5.3	3.5	3200	4165	4170	
18860	BIGB	05 06 1820	S11 W19	05 5.3	3.5	3550	4165	4170	
18860	BIGB	05 07 1720	S10 W32	05 5.3	3.5	3550	4165	4170	
18860	BIGB	05 09 1830	S12 W57	05 5.5	3.5	3500	4165	4170	
18860	BIGB	05 10 1635	S12 W73	05 5.2	2.5	3000	4165	4170	
18864	BIGB	05 02 1625	S13 E56	05 6.9	1.0	0175	4168		
18864	BIGB	05 03 1800	S12 E40	05 6.8	1.0	0300	4168		
18864	BIGB	05 04 1626	S13 E27	05 6.7	4.0	0325	4168		
18864	BIGB	05 05 1719	S13 E12	05 6.6	3.0	0800	4168		
18864	BIGB	05 06 1820	S15 W02	05 6.6	3.0	1000	4168		
18864	BIGB	05 07 1720	S19 W16	05 6.5	3.0	1200	4168		
18864	BIGB	05 09 1830	S15 W41	05 6.7	3.0	1700	4168		
18864	BIGB	05 10 1635	S15 W56	05 6.4	3.0	1700	4168		
18864	BIGB	05 12 1638	S14 W80	05 6.6	1.5	0500	4168		
18868	BIGB	05 04 1626	N09 E32	05 7.1	1.0	0150			
18868	BIGB	05 05 1719	N08 E19	05 7.1	1.0	0125			
18863	BIGB	05 02 1625	S16 E77	05 8.5	1.5	1800			
18863	BIGB	05 03 1800	S15 E57	05 8.1	2.0	1500			
18863	BIGB	05 04 1626	S16 E47	05 8.2	2.0	1800			
18863	BIGB	05 05 1719	S16 E31	05 8.1	2.5	1800			

CALCIUM PLAGE REGIONS
(ORDERED BY CENTRAL MERIDIAN PASSAGE DATE)

MAY 1983

Calcium Plage Region	Sta	Observation Time		Lat CMD		CMP Mo Day	Intensity	Corrected Area (10-6 Hemi)	NOAA/USAF #1	Sunspot Groups #2	Groups #3
18863	B1G8	05	06	1820	S17 E18	05 8.1	2.5	1600			
18863	B1G8	05	07	1720	S17 E05	05 8.1	3.0	1750			
18863	B1G8	05	09	1830	S16 W21	05 8.2	2.0	1750			
18863	B1G8	05	10	1635	S17 W36	05 7.9	2.0	1750			
18863	B1G8	05	12	1638	S17 W60	05 8.1	2.0	1500			
18863	B1G8	05	13	1554	S16 W76	05 7.9	1.0	1300			
18863	B1G8	05	14	1635	S17 W78	05 8.8	1.0	2000			
18866	B1G8	05	03	1800	S09 E75	05 9.4	1.0	0275	4173		
18866	B1G8	05	04	1626	S11 E62	05 9.3	1.5	0300	4173		
18866	B1G8	05	05	1719	S12 E48	05 9.3	2.5	0350	4173		
18866	B1G8	05	06	1820	S12 E33	05 9.2	3.0	0350	4173		
18866	B1G8	05	07	1720	S12 E20	05 9.2	3.0	0450	4173		
18866	B1G8	05	09	1830	S11 W07	05 9.2	3.5	1450	4173		
18866	B1G8	05	10	1635	S11 W23	05 9.0	4.0	1450	4173		
18866	B1G8	05	12	1638	S11 W47	05 9.3	4.0	2700	4173		
18866	B1G8	05	13	1554	S12 W59	05 9.2	3.5	2600	4173		
18866	B1G8	05	14	1635	S10 W72	05 9.3	4.0	2500	4173		
18866	B1G8	05	15	1730	S10 W80	05 9.7	4.0	2500	4173		
18867	B1G8	05	03	1800	S14 E77	05 9.6	1.0	0175	4175		
18867	B1G8	05	04	1626	S15 E63	05 9.4	1.5	0350	4175		
18867	B1G8	05	05	1719	S17 E49	05 9.4	2.5	0300	4175		
18867	B1G8	05	06	1820	S19 E35	05 9.4	2.0	0350	4175		
18867	B1G8	05	07	1720	S17 E22	05 9.4	2.0	0350	4175		
18867	B1G8	05	09	1830	S15 W06	05 9.3	1.5	0200	4175		
18867	B1G8	05	10	1635	S08 W15	05 9.6	1.5	0200	4175		
18867	B1G8	05	12	1638	S08 W14	05 11.6	3.5	0350	4175		
18867	B1G8	05	13	1554	S08 W51	05 9.8	3.5	0600	4175		
18867	B1G8	05	14	1635	S07 W62	05 10.0	2.0	0350	4175		
18867	B1G8	05	15	1730	S07 W75	05 10.1	2.0	0300	4175		
18869	B1G8	05	05	1719	S14 E75	05 11.4	1.5	0900			
18869	B1G8	05	06	1820	S13 E60	05 11.3	2.0	0900			
18869	B1G8	05	07	1720	S12 E47	05 11.3	2.0	0900			
18869	B1G8	05	09	1830	S12 E22	05 11.4	1.5	0900			
18869	B1G8	05	10	1635	S12 E04	05 11.0	2.0	0900			
18869	B1G8	05	12	1638	S10 W20	05 11.2	2.0	0900			
18869	B1G8	05	13	1554	S12 W33	05 11.2	1.5	0900			
18869	B1G8	05	14	1635	S12 W48	05 11.1	1.5	1000			
18869	B1G8	05	15	1730	S12 W58	05 11.3	2.0	0900			
18869	B1G8	05	16	1835	S11 W75	05 11.1	1.0	0900			
18869	B1G8	05	17	1835	S11 W80	05 11.7	1.0	0400			
18871	B1G8	05	06	1820	S31 E78	05 12.9	3.5	5000	4171		
18871	B1G8	05	07	1720	S31 E64	05 12.8	3.5	5200	4171		
18871	B1G8	05	09	1830	S31 E40	05 12.9	3.5	4800	4171		
18871	B1G8	05	10	1635	S31 E25	05 12.7	3.5	4800	4171		
18871	B1G8	05	12	1638	S31 E02	05 12.8	3.5	4300	4171		
18871	B1G8	05	13	1554	S31 W09	05 12.9	3.0	3000	4171		
18871	B1G8	05	14	1635	S31 W23	05 12.9	3.0	4100	4171		
18871	B1G8	05	15	1730	S31 W36	05 12.9	3.5	4100	4171		
18871	B1G8	05	16	1835	S31 W50	05 12.8	3.5	3500	4171		
18871	B1G8	05	17	1835	S31 W62	05 12.9	3.0	3700	4171		
18870	B1G8	05	06	1820	S12 E80	05 12.8	3.0	1300	4172		
18870	B1G8	05	07	1720	S11 E67	05 12.8	3.0	1600	4172		
18870	B1G8	05	09	1830	S09 E43	05 13.0	3.5	1600	4172		
18870	B1G8	05	10	1635	S09 E27	05 12.7	3.0	1600	4172		
18870	B1G8	05	12	1638	S10 E04	05 13.0	3.5	2000	4172		
18870	B1G8	05	13	1554	S10 W09	05 13.0	3.5	2000	4172		
18870	B1G8	05	14	1635	S10 W25	05 12.8	3.5	2000	4172		
18870	B1G8	05	15	1730	S09 W37	05 12.9	3.5	2000	4172		
18870	B1G8	05	16	1835	S10 W51	05 12.9	3.5	2000	4172		
18870	B1G8	05	17	1835	S10 W64	05 13.0	3.5	2000	4172		
18872	B1G8	05	09	1830	S12 E70	05 15.0	2.5	0700	4176	4178	
18872	B1G8	05	10	1635	S11 E51	05 14.5	2.0	0700	4176	4178	
18872	B1G8	05	12	1638	S10 E28	05 14.8	2.5	1000	4176	4178	
18872	B1G8	05	13	1554	S09 E12	05 14.6	3.5	0500	4176	4178	
18872	B1G8	05	14	1635	S09 W01	05 14.6	3.0	0850	4176	4178	

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CALCIUM PLAGE REGIONS
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Calcium Plage Region	Sta	Mo	Day	Time (UT)	Lat	CMD	CMP Mo	Day	Intensity	Corrected Area (10-6 Hemi)	NOAA/USAF #1	Sunspot #2	Groups #3
18872	BIGB	05	15	1730	S08	W15	05	14.6	2.5	0900	4176	4178	
18872	BIGB	05	16	1835	S08	W28	05	14.7	2.5	0900	4176	4178	
18872	BIGB	05	17	1835	S08	W42	05	14.6	3.0	0825	4176	4178	
18872	BIGB	05	19	1720	S09	W70	05	14.5	3.5	0850	4176	4178	
18872	BIGB	05	20	1750	S10	W80	05	14.7	1.5	0C50	4176	4178	
18873	BIGB	05	09	1830	S19	E74	05	15.4	2.0	0130	4185		
18873	BIGB	05	10	1635	S19	E55	05	14.9	1.5	0150	4185		
18873	BIGB	05	12	1638	S18	E31	05	15.0	1.5	0650	4185		
18873	BIGB	05	13	1554	S17	E17	05	14.9	1.5	0650	4185		
18873	BIGB	05	14	1635	S17	E04	05	15.0	1.5	0750	4185		
18873	BIGB	05	15	1730	S17	W10	05	15.0	2.0	0800	4185		
18873	BIGB	05	16	1835	S16	W24	05	14.9	2.0	0800	4185		
18873	BIGB	05	17	1835	S15	W38	05	14.9	2.0	0700	4185		
18873	BIGB	05	19	1720	S15	W71	05	14.3	1.0	0450	4185		
18873	BIGB	05	20	1750	S15	W80	05	14.7	1.0	0275	4185		
18879	BIGB	05	13	1554	S08	E21	05	15.2	1.0	0250	4177		
18879	BIGB	05	14	1635	S09	E07	05	15.2	1.0	0300	4177		
18879	BIGB	05	15	1730	S09	W07	05	15.2	2.5	0500	4177		
18879	BIGB	05	16	1835	S08	W20	05	15.3	2.5	0500	4177		
18879	BIGB	05	17	1835	S09	W33	05	15.3	2.5	0700	4177		
18879	BIGB	05	19	1720	S08	W60	05	15.2	2.5	0500	4177		
18879	BIGB	05	20	1750	S08	W73	05	15.3	1.0	0350	4177		
18885	BIGB	05	17	1835	S19	W33	05	15.2	2.5	0275			
18885	BIGB	05	19	1720	S20	W61	05	15.0	3.0	0575			
18885	BIGB	05	20	1750	S21	W79	05	14.7	2.5	0350			
18874	BIGB	05	09	1830	N23	E72	05	15.3	1.5	0500			
18874	BIGB	05	10	1635	N23	E56	05	15.0	1.0	0500			
18874	BIGB	05	12	1638	N24	E38	05	15.6	1.0	1400			
18874	BIGB	05	13	1554	N25	E23	05	15.4	1.0	1000			
18874	BIGB	05	14	1635	N24	E11	05	15.5	1.0	1500			
18874	BIGB	05	15	1730	N25	W03	05	15.5	1.0	1500			
18874	BIGB	05	16	1835	N24	W16	05	15.5	1.0	1300			
18874	BIGB	05	17	1835	N24	W30	05	15.4	1.0	0900			
18874	BIGB	05	19	1720	N25	W59	05	15.1	1.0	0950			
18874	BIGB	05	20	1750	N25	W83	05	14.3	1.0	0550			
18875	BIGB	05	12	1638	S06	E51	05	16.5	1.5	0300	4177A		
18875	BIGB	05	13	1554	S06	E37	05	16.4	2.0	0350	4177A		
18875	BIGB	05	14	1635	S07	E23	05	16.4	2.5	0400	4177A		
18875	BIGB	05	15	1730	S06	E09	05	16.4	1.5	0275	4177A		
18875	BIGB	05	16	1835	S06	W05	05	16.4	1.5	0300	4177A		
18875	BIGB	05	17	1835	S05	W17	05	16.5	1.5	0300	4177A		
18875	BIGB	05	19	1720	S05	W72	05	14.3	1.0	0400	4177A		
18875	BIGB	05	20	1750	S06	W58	05	16.4	1.0	0200	4177A		
18875	BIGB	05	21	1660	S06	W72	05	16.3	1.0	0150	4177A		
18875	BIGB	05	22	1660	S06	W82	05	16.6	1.0	0150	4177A		
18877	BIGB	05	12	1638	S12	E55	05	16.8	1.0	0125			
18877	BIGB	05	13	1554	S11	E43	05	16.9	1.5	0175			
18876	BIGB	05	12	1638	N09	E69	05	17.9	3.0	1650	4174		
18876	BIGB	05	13	1554	N09	E51	05	17.5	3.0	1200	4174		
18876	BIGB	05	14	1635	N08	E41	05	17.8	3.0	1700	4174		
18876	BIGB	05	15	1730	N08	E24	05	17.5	3.0	1900	4174		
18876	BIGB	05	16	1835	N09	E08	05	17.4	3.0	2000	4174		
18876	BIGB	05	17	1835	N10	W04	05	17.5	3.0	1900	4174		
18876	BIGB	05	19	1720	N10	W33	05	17.2	3.0	1750	4174		
18876	BIGB	05	20	1750	N09	W44	05	17.4	3.0	2500	4174		
18876	BIGB	05	21	1660	N09	W55	05	17.6	3.5	2000	4174		
18876	BIGB	05	22	1660	N09	W67	05	17.7	3.0	2000	4174		
18876	BIGB	05	23	2000	N09	W78	05	18.0	2.5	1600	4174		
18876	BIGB	05	24	1620	N11	W80	05	18.7	1.0	1000	4174		
18878	BIGB	05	12	1638	N11	E83	05	18.9	1.0	0150	4182		
18878	BIGB	05	13	1554	N11	E65	05	18.5	3.0	1000	4182		
18878	BIGB	05	14	1635	N10	E56	05	18.9	2.5	1550	4182		
18878	BIGB	05	15	1730	N10	E38	05	18.6	3.0	1600	4182		

CALCIUM PLAGE REGIONS
(ORDERED BY CENTRAL MERIDIAN PASSAGE DATE)

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Calcium Plage Region	Sta	Observation Time Mo Day (UT)	Lat CMO	CMP Mo Day	Intensity	Corrected Area (10 ⁻⁶ Hemi)	NOAA/USAF #1	Sunspot #2	Groups #3
18878	B1GB	05 16 1835	N12 E26	05 18.7	3.0	1800	4182		
18878	B1GB	05 17 1835	N12 E14	05 18.8	3.0	1300	4182		
18878	B1GB	05 19 1720	N13 W16	05 18.5	3.0	1600	4182		
18878	B1GB	05 20 1750	N13 W25	05 18.8	2.0	0650	4182		
18878	B1GB	05 21 1660	N13 W37	05 18.9	2.0	0700	4182		
18878	B1GB	05 22 1660	N13 W50	05 18.9	2.0	0700	4182		
18878	B1GB	05 23 2000	N13 W64	05 19.0	1.5	0900	4182		
18878	B1GB	05 24 1620	N16 W75	05 19.0	1.0	0900	4182		
18881	B1GB	05 14 1835	N11 E70	05 19.9	3.0	0300			
18881	B1GB	05 17 1830	N11 E51	05 19.6	2.0	0400			
18881	B1GB	05 18 1835	N13 E40	05 19.8	1.5	0500			
18881	B1GB	05 17 1835	N13 E27	05 19.8	1.0	0250			
18881	B1GB	05 19 1720	N13 W03	05 19.5	1.0	0250			
18896	B1GB	05 22 1660	N12 W37	05 19.9	1.5	0175			
18896	B1GB	05 23 2000	N12 W53	05 19.8	1.5	0125			
18896	B1GB	05 24 1620	N13 W63	05 19.9	1.0	0100			
18897	B1GB	05 23 2000	S06 W51	05 20.0	3.0	0130	4188		
18897	B1GB	05 24 1620	S05 W63	05 20.0	3.0	0550	4188		
18897	B1GB	05 25 1815	S05 W76	05 20.1	2.5	0700	4188		
18880	B1GB	05 14 1635	S27 E82	05 21.1	2.0	0750	4179		
18880	B1GB	05 15 1730	S28 E70	05 21.2	2.5	1000	4179		
18880	B1GB	05 15 1835	S28 E58	05 21.3	2.5	1000	4179		
18880	B1GB	05 17 1835	S28 E42	05 21.0	2.5	1000	4179		
18880	B1GB	05 19 1720	S28 E17	05 21.0	2.0	1300	4179		
18880	B1GB	05 20 1750	S26 E05	05 21.1	2.0	0850	4179		
18880	B1GB	05 21 1660	S26 W07	05 21.2	2.5	0800	4179		
18880	B1GB	05 22 1660	S26 W21	05 21.1	2.5	0800	4179		
18880	B1GB	05 23 2000	S25 W34	05 21.2	2.5	0250	4179		
18880	B1GB	05 24 1620	S22 W47	05 21.1	2.0	0950	4179		
18880	B1GB	05 25 1815	S22 W75	05 20.0	2.5	1000	4179		
18880	B1GB	05 26 1710	S22 W78	05 20.7	2.5	1000	4179		
18882	B1GB	05 15 1730	N14 E71	05 21.1	2.5	0600			
18882	B1GB	05 16 1835	N14 E64	05 21.6	1.5	0650			
18882	B1GB	05 17 1835	N14 E47	05 21.3	1.5	0700			
18882	B1GB	05 19 1720	N14 E11	05 20.5	1.0	0650			
18882	B1GB	05 20 1750	N16 E06	05 21.2	1.0	0650			
18882	B1GB	05 21 1660	N15 W07	05 21.2	1.0	0650			
18882	B1GB	05 22 1660	N15 W21	05 21.1	1.0	0650			
18882	B1GB	05 23 2000	N16 W36	05 21.1	1.5	0700			
18882	B1GB	05 24 1620	N15 W46	05 21.2	1.0	0600			
18882	B1GB	05 25 1815	N16 W57	05 21.4	1.0	0550			
18883	B1GB	05 15 1730	S23 E71	05 21.2	3.0	3500	4181		
18883	B1GB	05 16 1835	S24 E65	05 21.8	3.0	3500	4181		
18883	B1GB	05 17 1835	S24 E49	05 21.5	3.0	2800	4181		
18883	B1GB	05 19 1720	S24 E31	05 22.1	3.5	2300	4181		
18883	B1GB	05 20 1750	S24 E17	05 22.0	3.5	2300	4181		
18883	B1GB	05 21 1660	S24 E05	05 22.1	3.5	2500	4181		
18883	B1GB	05 22 1660	S24 W06	05 22.2	3.5	2500	4181		
18883	B1GB	05 23 2000	S25 W22	05 22.1	3.5	2150	4181		
18883	B1GB	05 24 1620	S24 W32	05 22.2	3.5	2450	4181		
18883	B1GB	05 25 1815	S23 W44	05 22.4	3.5	2250	4181		
18883	B1GB	05 26 1710	S22 W62	05 21.9	3.5	2100	4181		
18883	B1GB	05 27 1730	S24 W70	05 22.3	3.5	2000	4181		
18883	B1GB	05 28 1718	S24 W75	05 22.9	2.0	1000	4181		
18884	B1GB	05 16 1835	S14 E75	05 22.4	2.5	2000			
18884	B1GB	05 17 1835	S14 E62	05 22.4	2.5	1700			
18884	B1GB	05 19 1720	S14 E35	05 22.4	2.0	1700			
18884	B1GB	05 20 1750	S14 E23	05 22.5	2.0	1700			
18884	B1GB	05 21 1660	S14 E08	05 22.3	2.5	1600			
18884	B1GB	05 22 1660	S15 W03	05 22.5	2.0	1600			
18884	B1GB	05 23 2000	S16 W16	05 22.6	2.5	1700			
18884	B1GB	05 24 1620	S14 W30	05 22.4	2.5	1500			
18884	B1GB	05 25 1815	S13 W43	05 22.5	2.0	1450			
18884	B1GB	05 26 1710	S12 W60	05 22.2	2.0	1275			

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CALCIUM PLAGE REGIONS
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Calcium Plage Region	Sta	Observation Time Mo Day (UT)		Lat CMD	CMP Mo Day	Intensity	Corrected Area (10-6 Hemi)	NOAA/USAF #1	Sunspot #2	Groups #3
18884	BIGB	05	27	1730	S13 W71	05 22.4	2.0	1275		
18887	BIGB	05	19	1720	S08 E49	05 23.4	1.0	0200	4186	
18887	BIGB	05	20	1750	S08 E36	05 23.4	1.0	0200	4186	
18887	BIGB	05	21	1660	S10 E23	05 23.4	1.0	0200	4186	
18887	BIGB	05	22	1660	S14 E17	05 24.0	1.5	0350	4186	
18887	BIGB	05	23	2000	S14 E02	05 24.0	1.5	0550	4186	
18887	BIGB	05	24	1620	S11 W10	05 23.9	1.5	0500	4186	
18887	BIGB	05	25	1815	S11 W25	05 23.9	1.5	0500	4186	
18887	BIGB	05	26	1710	S11 W34	05 24.1	1.5	0650	4186	
18887	BIGB	05	27	1730	S11 W45	05 24.3	1.5	0700	4186	
18887	BIGB	05	28	1718	S11 W57	05 24.4	3.0	0700	4186	
18887	BIGB	05	29	1946	S11 W73	05 24.3	3.0	0900	4186	
18886	BIGB	05	17	1835	N15 E80	05 23.8	3.5	1400	4183	
18886	BIGB	05	19	1720	N16 E56	05 24.0	3.5	2700	4183	
18886	BIGB	05	20	1750	N17 E41	05 23.8	3.5	2500	4183	
18886	BIGB	05	21	1660	N17 E29	05 23.9	3.5	3200	4183	
18886	BIGB	05	22	1660	N16 E17	05 24.0	4.0	2800	4183	
18886	BIGB	05	23	2000	N17 E05	05 24.2	4.0	3400	4183	
18886	BIGB	05	24	1620	N16 W10	05 23.9	3.5	3400	4183	
18886	BIGB	05	25	1815	N17 W25	05 23.9	3.5	3200	4183	
18886	BIGB	05	26	1710	N17 W39	05 23.7	3.5	3200	4183	
18886	BIGB	05	27	1730	N19 W53	05 23.7	3.5	3200	4183	
18886	BIGB	05	28	1718	N19 W64	05 23.8	3.5	3200	4183	
18886	BIGB	05	29	1946	N19 W71	05 24.4	3.0	0900	4183	
18894	BIGB	05	21	1660	S07 E36	05 24.4	1.5	0375		
18894	BIGB	05	22	1660	S09 E25	05 24.6	1.5	0300		
18894	BIGB	05	23	2000	S09 E10	05 24.6	1.0	0300		
18894	BIGB	05	24	1620	S08 W04	05 24.4	1.0	0125		
18888	BIGB	05	19	1720	N16 E72	05 25.2	2.5	0800		
18888	BIGB	05	20	1750	N16 E59	05 25.2	2.5	0800		
18888	BIGB	05	21	1660	N18 E46	05 25.2	2.5	0900		
18888	BIGB	05	22	1660	N16 E32	05 25.1	2.5	1000		
18888	BIGB	05	23	2000	N18 E20	05 25.3	2.5	0800		
18888	BIGB	05	24	1620	N18 E10	05 25.4	2.5	0950		
18888	BIGB	05	25	1815	N20 W05	05 25.4	2.0	0900		
18888	BIGB	05	26	1710	N19 W17	05 25.4	2.0	1000		
18888	BIGB	05	27	1730	N20 W30	05 25.4	2.0	1000		
18888	BIGB	05	28	1718	N21 W40	05 25.6	1.5	1000		
18888	BIGB	05	29	1946	N21 W55	05 25.6	1.5	2900		
18888	BIGB	05	30	1910	N19 W69	05 25.5	1.0	2000		
18889	BIGB	05	19	1720	S14 E68	05 24.9	2.0	1900	4192	
18889	BIGB	05	20	1750	S15 E54	05 24.8	2.5	1850	4192	
18889	BIGB	05	21	1660	S17 E45	05 25.1	2.5	1700	4192	
18889	BIGB	05	22	1660	S19 E37	05 25.5	2.5	2150	4192	
18889	BIGB	05	23	2000	S20 E13	05 24.8	2.5	2100	4192	
18889	BIGB	05	24	1620	S17 E09	05 25.4	2.5	2000	4192	
18889	BIGB	05	25	1815	S18 W04	05 25.4	2.5	2100	4192	
18889	BIGB	05	26	1710	S18 W13	05 25.7	2.5	2350	4192	
18889	BIGB	05	27	1730	S19 W28	05 25.6	2.5	2350	4192	
18889	BIGB	05	28	1718	S18 W36	05 26.0	2.5	2000	4192	
18889	BIGB	05	29	1946	S20 W60	05 25.2	2.5	2000	4192	
18889	BIGB	05	30	1910	S20 W72	05 25.3	2.5	2000	4192	
18890	BIGB	05	20	1750	S10 E74	05 26.3	1.0	0500	4193	
18890	BIGB	05	21	1660	S09 E50	05 25.5	1.5	0750	4193	
18890	BIGB	05	22	1660	S11 E43	05 25.9	1.5	0700	4193	
18890	BIGB	05	23	2000	S12 E30	05 26.1	1.5	0700	4193	
18890	BIGB	05	24	1620	S10 E16	05 25.9	2.0	0800	4193	
18890	BIGB	05	25	1815	S08 E04	05 26.1	2.0	0750	4193	
18890	BIGB	05	26	1710	S08 W13	05 25.7	2.5	0800	4193	
18890	BIGB	05	27	1730	S08 W26	05 25.8	3.5	0875	4193	
18890	BIGB	05	28	1718	S06 W38	05 25.9	3.5	0750	4193	
18890	BIGB	05	29	1946	S07 W55	05 25.7	3.5	1000	4193	
18890	BIGB	05	30	1910	S09 W69	05 25.6	3.0	0800	4193	
18890	BIGB	05	31	1840	S07 W79	05 25.9	1.5	0700	4193	
18892	BIGB	05	20	1750	S17 E70	05 26.1	2.5	0300	4185	

CALCIUM PLAGE REGIONS
(ORDERED BY CENTRAL MERIDIAN PASSAGE DATE)

MAY 1983

Calcium Plage Region	Sta	Observation Time		Lat	CMD	CMP Mo Day	Intensity	Corrected Area (10 ⁻⁶ Hem.)	NOAA/USAF #1	Sunspot #2	Groups #3
18892	B1G8	05	21	1660	S16 E58	05 26.1	2.5	0500	4185		
18892	B1G8	05	22	1660	S17 E48	05 26.3	3.0	0900	4185		
18892	B1G8	05	23	2000	S18 E34	05 26.4	3.0	0900	4185		
18892	B1G8	05	24	1620	S17 E21	05 26.3	3.0	0900	4185		
18892	B1G8	05	25	1815	S17 E07	05 26.3	3.5	0850	4185		
18892	B1G8	05	26	1710	S17 W07	05 26.2	3.0	1000	4185		
18892	B1G8	05	27	1730	S17 W18	05 26.4	3.0	1000	4185		
18892	B1G8	05	28	1718	S16 W32	05 26.3	3.0	1000	4185		
18892	B1G8	05	29	1946	S17 W47	05 26.2	3.0	1200	4185		
18892	B1G8	05	30	1910	S18 W59	05 26.3	3.0	1300	4185		
18892	B1G8	05	31	1840	S17 W73	05 26.2	2.5	1000	4185		
18891	B1G8	05	20	1750	S03 E77	05 26.5	1.0	0700	4195		
18891	B1G8	05	21	1660	S03 E63	05 26.4	2.5	1000	4195		
18891	B1G8	05	22	1660	S03 E54	05 26.7	2.5	1300	4195		
18891	B1G8	05	23	2000	S03 E41	05 26.9	2.5	1100	4195		
18891	B1G8	05	24	1620	S06 E26	05 26.6	2.5	1650	4195		
18891	B1G8	05	25	1815	S04 E10	05 26.5	2.5	1200	4195		
18891	B1G8	05	26	1710	S03 W04	05 26.4	2.0	0950	4195		
18891	B1G8	05	27	1730	S03 W16	05 26.5	2.0	1070	4195		
18891	B1G8	05	28	1718	S03 W28	05 26.6	2.0	1000	4195		
18891	B1G8	05	29	1946	S03 W42	05 26.7	2.0	1000	4195		
18891	B1G8	05	30	1910	S04 W55	05 26.7	1.5	1000	4195		
18891	B1G8	05	31	1840	S03 W70	05 26.5	2.0	1200	4195		
18893	B1G8	05	21	1660	S16 E68	05 26.9	1.5	0150	4187		
18893	B1G8	05	22	1660	S18 E57	05 27.0	3.5	1400	4187		
18893	B1G8	05	23	2000	S18 E44	05 27.2	3.5	1500	4187		
18893	B1G8	05	24	1620	S19 E30	05 27.0	4.0	1700	4187		
18893	B1G8	05	25	1815	S16 E17	05 27.0	3.5	1700	4187		
18893	B1G8	05	26	1710	S17 E01	05 26.8	3.5	1850	4187		
18893	B1G8	05	27	1730	S17 W10	05 27.0	3.5	2000	4187		
18893	B1G8	05	28	1718	S15 W22	05 27.0	3.5	2000	4187		
18893	B1G8	05	29	1946	S16 W35	05 27.2	3.5	2300	4187		
18893	B1G8	05	30	1910	S17 W48	05 27.1	4.0	2300	4187		
18893	B1G8	05	31	1840	S16 W62	05 27.1	4.0	1900	4187		
18893	B1G8	06	01	1940	S17 W80	05 26.8	3.0	1200	4187		
18895	B1G8	05	25	1815	S04 E20	05 27.2	3.0	0325			
18895	B1G8	05	26	1710	S04 E06	05 27.2	2.0	0400			
18895	B1G8	05	27	1730	S03 E07	05 28.2	2.0	0400			
18898	B1G8	05	23	2000	N17 E54	05 27.9	1.0	0400	4189		
18898	B1G8	05	24	1620	N15 E40	05 27.7	3.0	0550	4189		
18898	B1G8	05	25	1815	N15 E27	05 27.8	2.5	0750	4189		
18898	B1G8	05	26	1710	N16 E14	05 27.8	2.5	0800	4189		
18898	B1G8	05	27	1730	N16 W01	05 27.6	2.5	0700	4189		
18898	B1G8	05	28	1718	N16 W13	05 27.7	2.5	0700	4189		
18898	B1G8	05	29	1946	N15 W27	05 27.8	2.5	0650	4189		
18898	B1G8	05	30	1910	N15 W39	05 27.8	2.0	0650	4189		
18898	B1G8	05	31	1840	N16 W64	05 26.9	1.5	0750	4189		
18898	B1G8	06	01	1940	N17 W70	05 27.6	1.0	0500	4189		
18906	B1G8	06	01	1940	S08 W46	05 29.5	1.5	0100			
18906	B1G8	06	02	1950	S08 W55	05 29.8	1.0	0100			
18899	B1G8	05	23	2000	N12 E70	05 29.1	1.0	0700	4191		
18899	B1G8	05	24	1620	N08 E62	05 29.3	3.5	1000	4191		
18899	B1G8	05	25	1815	N11 E52	05 29.7	3.5	1500	4191		
18899	B1G8	05	26	1710	N10 E37	05 29.5	3.0	1350	4191		
18899	B1G8	05	27	1730	N12 E23	05 29.5	3.0	1450	4191		
18899	B1G8	05	28	1718	N12 E13	05 29.7	3.0	1000	4191		
18899	B1G8	05	29	1946	N12 W03	05 29.6	3.0	1000	4191		
18899	B1G8	05	30	1910	N11 W15	05 29.7	2.5	1100	4191		
18899	B1G8	05	31	1840	N12 W31	05 29.4	2.5	1100	4191		
18899	B1G8	06	01	1940	N14 W43	05 29.7	2.5	0800	4191		
18899	B1G8	06	02	1950	N14 W54	05 29.8	1.5	0700	4191		
18900	B1G8	05	24	1620	S13 E85	05 31.1	1.0	0700	4199	4202	
18900	B1G8	05	25	1815	S12 E76	05 31.5	3.0	2400	4199	4202	
18900	B1G8	05	26	1710	S13 E60	05 31.2	3.5	2900	4199	4202	

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Late
May 83

CALCIUM PLAGE REGIONS
(ORDERED BY CENTRAL MERIDIAN PASSAGE DATE)

MAY 1983

Calcium Plage Region	Sta	Observation Time Mo Day (UT)		Lat CMD	CMP Mo Day	Intensity	Corrected Area (10 ⁻⁶ Hemi)	NOAA/USAF #1	Sunspot #2	Groups #3
18900	BIGB	05 27	1730	S11 E45	05 31.1	3.5	3300	4199	4202	
18900	BIGB	05 28	1718	S11 E35	05 31.3	3.5	3700	4199	4202	
18900	BIGB	05 29	1946	S12 W21	05 28.2	3.5	3800	4199	4202	
18900	BIGB	05 30	1910	S12 E08	05 31.4	3.5	3400	4199	4202	
18900	BIGB	05 31	1840	S13 W07	05 31.2	3.5	3650	4199	4202	
18900	BIGB	06 01	1940	S12 W20	05 31.3	3.0	3500	4199	4202	
18900	BIGB	06 02	1950	S12 W32	05 31.4	3.0	3300	4199	4202	
18900	BIGB	06 05	1750	S12 W70	05 31.5	3.0	3000	4199	4202	
18901	BIGB	05 24	1620	N13 E83	05 30.9	1.5	0600			
18901	BIGB	05 25	1815	N14 E77	05 31.6	3.0	1000			
18901	BIGB	05 26	1710	N13 E59	05 31.2	3.0	0900			
18901	BIGB	05 27	1730	N14 E46	05 31.2	3.0	1000			
18901	BIGB	05 28	1718	N13 E36	05 31.4	3.0	1000			
18901	BIGB	05 29	1946	N12 E19	05 31.2	3.0	1000			
18901	BIGB	05 30	1910	N12 E07	05 31.3	2.5	1000			
18901	BIGB	05 31	1840	N13 W06	05 31.3	2.0	0900			
18901	BIGB	06 01	1940	N14 W23	05 31.1	2.0	0900			
18901	BIGB	06 02	1950	N14 W30	05 31.5	1.5	0700			
18901	BIGB	06 05	1750	N14 W78	05 30.9	1.0	0500			

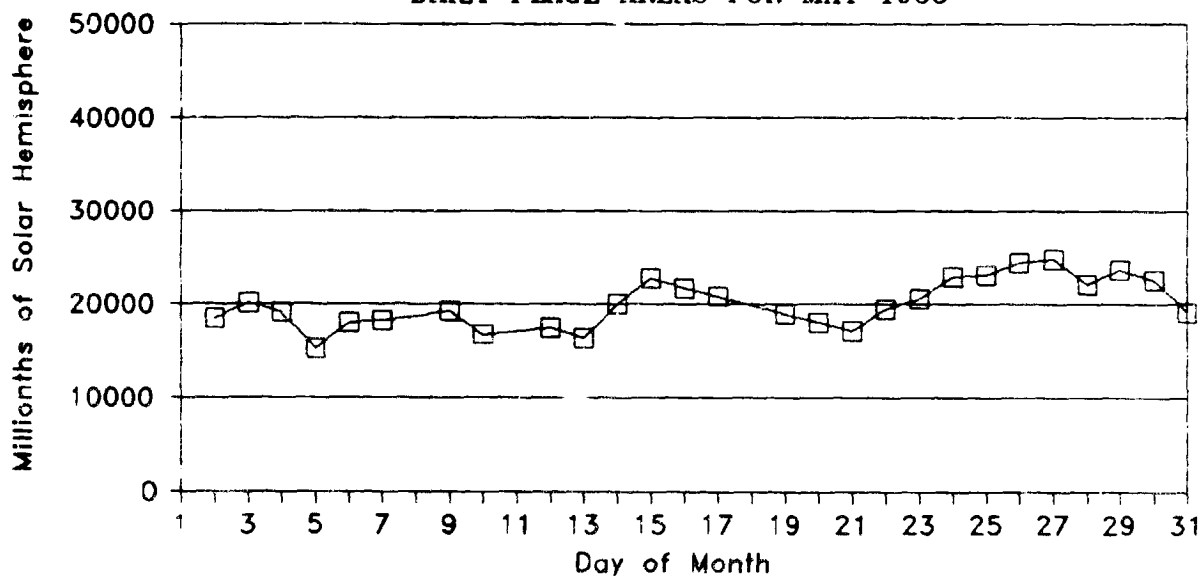
DAILY PLAGE SUMMARIES

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Late
May 83

MAY 1983

Day	Sta	Plage Index	Plage Count	Smallest Plage (Millionths of Solar Hemisphere)	Largest Plage	Total Area	Smallest Intensity	Largest Intensity
01	No Observations This Day							
02	BIGB	36.7	17	125	3700	18425	1.0	3.5
03	BIGB	35.4	17	175	4700	20175	1.0	3.5
04	BIGB	32.5	15	150	4700	19175	1.0	4.0
05	BIGB	30.8	14	125	3200	15275	1.0	3.5
06	BIGB	30.0	13	150	5000	13050	1.5	3.5
07	BIGB	34.5	12	150	5200	18250	1.0	3.5
08	No Observations This Day							
09	BIGB	36.5	13	130	4800	19230	1.0	3.5
10	BIGB	32.8	11	150	4800	16750	1.0	4.0
11	No Observations This Day							
12	BIGB	37.3	14	125	4300	17525	1.0	4.0
13	BIGB	31.3	14	175	3850	16375	1.0	3.5
14	BIGB	32.6	15	300	4100	20050	1.0	4.0
15	BIGB	37.7	16	275	4100	22825	1.0	4.0
16	BIGB	34.7	15	300	3500	21650	1.0	3.5
17	BIGB	32.3	17	250	3700	20850	1.0	3.5
18	No Observations This Day							
19	BIGB	30.5	17	200	2700	18875	1.0	3.5
20	BIGB	29.4	19	200	2500	17975	1.0	3.5
21	BIGB	35.8	16	150	3200	17175	1.0	3.5
22	BIGB	40.4	17	150	2800	19475	1.0	4.0
23	BIGB	43.8	19	125	3400	20605	1.0	4.0
24	BIGB	47.4	21	100	3400	22925	1.0	4.0
25	BIGB	45.6	18	325	3200	23125	1.0	3.5
26	BIGB	46.4	17	400	3200	24525	1.5	3.5
27	BIGB	48.8	16	400	3300	24750	1.5	3.5
28	BIGB	45.0	15	650	3700	22100	1.5	3.5
29	BIGB	44.6	15	650	3800	23700	1.5	3.5
30	BIGB	39.9	13	650	4200	22550	1.0	4.0
31	BIGB	37.7	11	700	5000	19150	1.5	4.0

DAILY PLAGE AREAS FOR MAY 1983



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Late
Apr 83

RIG BEAR SOLAR OBSERVATORY
ACTIVE REGION SUMMARY

APRIL 1983

REGION	IDENTIFICATION	AGE	FIRST SEEN	DURATION
18819	New (vic. of 18790)	1	830325	>11 days
820	18790	2	830326	>10
822	New	1	830330	>06
828	New	1	830403	>02
825	New (vic. of 18802)	1	830402	>08
826	New	1	830402	>13
827	18796	5	830404	>13
830	New	1	830409	>08
829	New (vic. of 18832)	1	830416	>02
831	18804	2	830409	>09
832	New (vic. of 18805)	1	830409	>09
833	New, in leading portion of 18806	1	830414	>04
834	New, in trailing portion of 18806	1	830414	>04
835	New	1	830414	>10
836	18807	3	830414	>10
837	18808	4	830414	>10
840	New	1	830415	>09
839	New	1	830414	>10
838	18810	3	830414	>10
841	New	1	830416	>12
842	18811	5	830417	>12
843	18812	4	830417	>12
849	New	1	830423	>01
851	New	1	830427	>01
855	New	1	830423	>02
844	New	1	830427	>06
846	18816	3	830423	>10
845	New	1	830423	>10
847	New (vic. of 18819)	2	830423	>13
848	New	1	830427	>12
852	New	1	830423	>07
857	New	1	830427	>08
850	New	1	830423	>14
858	New	1	830427	>06

1. No CaK Observations at BBSO on Apr. 1-26, 29, 30.
2. No CaK Prints on Apr. 5-8, 10-13, 18-23, 24-26, 29, 30.
3. No KPNO Magnetograms on Apr. 7, 11, 12, 18, 20, 21, 30.
4. Contiguous Plages: 18825/18826
18833/18834
5. Mount Wilson CaK Prints were used on Apr. 1-4, 9, 14-17, 23.

**BIG BEAR SOLAR OBSERVATORY
ACTIVE REGION SUMMARY**

103
Late
May 83

MAY 1983

REGION	IDENTIFICATION	AGE	FIRST SEEN	DURATION
18853	New	1	830427	>07 days
861	New	1	830502	>01
854	New	1	830427	>07
862	New	1	830502	>06
856	New	1	830427	>11
859	Leading polarity of 18825	2	830427	13
865	New	1	830503	>07
860	New (vic. of 18826)	1	830502	>09
879	New	1	830513	08
864	New	1	830502	11
868	New	1	830504	02
867	18827	6	830502	13
866	New (vic. of 18830)	1	830503	13
867	New	1	830503	13
869	18831	3	830505	13
870	New (vic. of 18834)	1	830506	>12
871	New (vic. of 18832)	1	830506	>12
872	New (vic. of 18836)	1	830509	>12
885	New	1	830517	04
873	18835	4	830509	>12
874	18835	2	830509	12
875	New	1	830512	11
877	New	1	830512	02
876	18838	4	830512	13
878	18841	2	830512	13
896	New	1	830522	03
891	New	1	830514	06
897	New	1	830523	03
880	New	1	830514	13
882	New	1	830515	11
883	New	1	830515	14
884	18844	2	830516	>12
886	New (vic. of 18845)	1	830517	13
887	18846	4	830519	>11
894	New	1	830521	04
888	18852 & 18848	2	830519	12
889	18847	2	830519	>12
890	New	1	830520	12
892	New	1	830520	12
891	18850	2	830520	12
893	18857	2	820521	13
895	New (vic. of 18850)	1	830525	03
898	New	1	830523	10
899	18862	2	830523	>13
906	New	1	830502	>02
900	18859	3	830524	14
901	18865	2	830524	13

1. No CaK Observations at BBSO on May 6, 7, 14-17, 22, 24-31.
2. No CaK Prints on May 1, 8, 11, 18.
3. No KPNO Magnetograms were missing in May.
4. Contiguous Plages: 18848/18852, 18857/18858, 18866/18867,
18872/18879, 18887/18889/18890, 18900/18902
5. Mount Wilson CaK Prints were used on May 6, 7, 14-17, 22, 24-31.